N O—M 0/32.

GOVERNMENT OF INDIA

METEOROLOGICAL DEPARTMENT

MAGNETIC, METEOROLOGICAL AND SEISMOGRAPHIC OBSERVATIONS

MADE AT THE

GOVERNMENT OBSERVATORIES,

BOMBAY AND ALIBAG,

IN THE YEAR

1932

UNDER THE DIRECTION OF

S. K. BANERJI, D.Sc.

AND

B. N. BANERJI, M.Sc., PH.D.

Published by Authority of the Government of India.

PUBLISHED BY MANAGER OF PUBLICATIONS, DELHI.
PRINTED BY THE MANAGER, GOVERNMENT OF INDIA PRESS, NEW DELHI.
1934.

Price Rs. 13 As. 14 or 22sh. 6d.

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INTRODUCTION.

This volume on the magnetic, meteorological and seismographic observations made in the Government Observatories, Bombay and Alibag, during the year 1932, is the fiftyfourth volume of its kind issued by the Observatory and extends the records of continuous meteorological and magnetic observations to a period of eightyseven years and seismographic observations to a period of thirtyfour years. It has been prepared in the same form as the volumes for the years 1929, 1930 and 1931. The hourly values of all the important meteorological and magnetic elements have been given and these represent their average values over one hour and not their momentary values at the end of every hour. Columns have been added in this volume giving the daily mean values and the monthly mean hourly values of barometric pressure in milibars and of air temperature in degrees centigrade. As in the previous volume values of potential gradient centred at every sixth hour of Greenwich Mean Time have been given.

The transference of magnetic work from Colaba to Alibag in 1904, due to the city of Bombay having decided to have electric tram service, caused a certain amount of discontinuity in the magnetic records, which had run uninterruptedly then at Colaba for about sixty years, but as comparative observations could be taken at both the stations for a period of two years before the electric tram lines were completed and the service had commenced its operations, the 'discontinuity' could be calculated and allowed for. The comparative observations show that at Alibag, the horizontal component of magnetic force stands lower by 0·00510 C. G. S. unit of force, easterly declination stands higher by 53′·5 and inclination stands higher by 1° 4′·7 than at Colaba, and these are the finally adopted differences between the two sites. The figures published in this volume, like those in the previous volumes since 1906, have not been corrected for these differences.

The Colaba Observatory is situated almost at the extreme south end of the narrow ridge of land extending about three miles to the south-west of the Fort of Bombay and separating the Harbour from the Back Bay. The level of the Observatory compound is about 32 feet above the mean level of the sea. The regular registration of meteorological observations in the Colaba Observatory commenced in November 1841.

The astronomical co-ordinates* giving the position of the Colaba Observatory are :—

Latitude	18° 53′ 36·18″ N.
Longitude	72° 48′ 54·03″ E.

The Alibag Magnetic Observatory is situated on the main land about 18 miles south-south-east of Bombay, and its astronomical co-ordinates are—

Latitude	18° 38′ 17″ N.
Longitude	72° 52′ 21″ E.

For a general description of the buildings and instruments in both the Observatories, see "Magnetical, Meteorological and Seismographic Observations made at the Government Observatories, Bombay and Alibag, 1906—1910," and also the similar volume for 1916—20.

Unless otherwise stated, all times given in this volume refer to local mean time.

Meteorological instruments at Colaba.

1. *Standard Barometer.*—The barometer is by Newman (No. 58) and has been in uninterrupted use since the establishment of the Observatory. It reads on an average 0·004″ below the Kew Standard and 0·012″ below the old Calcutta standard barometer. The height of the barometer is 37 feet above the mean sea-level. A subsidiary standard barometer, Newman No. 48, has also been maintained in the underground constant temperature room, and its reading exceeded that of the standard barometer by 0·001″ on the average during the year.

2. *Barograph.*—The instrument is of the Kew pattern and was installed in the underground constant temperature room in 1872. The variation of pressure is recorded photographically. The barograph has been treated, as in the past, as an independent instrument in respect of the variation of pressure occurring in the course of a day. A comparative study of the differences between the readings of the barograph and of the standard barometer for a large number of years indicates that these differences maintain fairly constant values and do not show variations at different hours of the day. The mean of the excesses of the eye observations of the standard barometer made at 8 hrs. (B. M. T.) and 17 hrs. (I. S. T.) on seven consecutive days over the corresponding barograph tabulations has been applied as a common correction to all the tabulated hourly readings of the day which is the fourth of the seven.

3. *Standard Dry bulb and Wet bulb Thermometers.*—On the 26th November 1917, the freezing points were tested and the zero of the dry bulb standard thermometer No. 401 was

*Magnetic, Meteorological and Seismographic observations made at the Government Observatories, Bombay and Alibag, 1922, p. 1.

found to have changed from 32°·6 to 33°·0 F. These thermometers were again tested on the 3rd February 1926 and their corrections were found to be the same as those determined in 1917. Besides the above, there are eye reading dry bulb, wet bulb, maximum and minimum thermometers installed in a standard Stevenson Screen. The heights of the bulbs of the thermometers above the ground in the two sheds are given below :—

Thermograph Shed ; Dry bulb 10′ ; Wet bulb 10′.

Stevenson Screen ; „ „ 4′ 4½″ ; „ „ 4′ 4″ ; Max. 4′ 11½″ ; Min. 4′ 4″.

For the results of comparative observations of these thermometers see p. 2 of the volume for the year 1924.

4. *Kew Dry bulb and Wet bulb Thermograph.*—The bulbs of these thermograph thermometers are placed close to those of the standard dry and wet bulb thermometers in a large double-louvre shed constructed in 1872, and the variation of temperatures is recorded photographically. The tables of air temperature have been obtained from the tabulations of dry bulb and of humidity from dry and wet bulb thermograms. The mean differences between the readings of the standard dry and wet bulb thermometers described in the preceding para. and the corresponding readings of the thermograms for the year 1932 were +0·2 and +0·1 respectively and were neglected.

5. *Robinson-Beckley's Anemograph.*—This anemograph is of the kind designed by Robinson, with improvements by Robert Beckley and has been in uninterrupted use in the Observatory since 1867, except that a new instrument of the same pattern and by the same makers was installed in 1907 to replace the old one. It is erected on the Anemometer Tower with its cups at a height of 58 feet above the ground and 100 feet above the mean sea-level. The centres of each pair of opposite hemi-spherical cups are four feet apart, and the diameter of each of the cups is 9 inches. The diameter of the vanes of the direction recorder is 15 inches and the breadth of the fans 4 inches.

6. *Dines' Anemograph, 1924 (velocity and direction).*—The old Dines' anemograph which was in continuous operation from 1896 and was provided with velocity recorder only was stopped in December 1929. A new Dines' anemograph provided with both velocity and direction recorders by R. W. Munro and Co. was received in 1923 and installed on the Anemometer Tower in January 1924. With a view to get the best possible exposure, its modern type T-shaped head-vane was placed on the top of a telegraph post, 32·5 feet high, fixed on the Tower at a distance of 3 feet from the cups of the Robinson-Beckley's anemograph. The vane was therefore 27 feet above the level of Robinson-Beckley's cups and 127 feet above the mean sea-level. The diameter of the post near the Beckley's cups is 8 inches and it does not therefore exercise any appreciable influence on the records of Robinson-Beckley. This is due to the fact that in a current of air flowing past a fixed cylindrical obstacle, the stream lines, although they get deformed near the obstacle, assume again very nearly the original configuration at a distance from the obstacle equal to its diameter, and at this distance the velocity of the air current, too, attains almost its original value. The results of a series of comparisons of this instrument with a U-tube pressure-gauge showed that W, the difference in level of water in inches in the two arms of the U-tube, which is a measure of the pressure exerted by the wind, and V, the velocity of the wind in miles per hour as indicated in the charts, practically obey the standard law, namely, $W = \cdot 000731\ V^2$.

The height of the vane of this anemometer is 26 feet above that of the old Dines' anemometer. On account of this greater height, this instrument records a larger velocity of wind, and smaller gustiness; the types of records by the two instruments are however identical. The ratio of the mean wind velocities recorded by the new Dines' anemograph to those recorded by the Beckley's anemograph during 1924—32 is given below for the different months, seasons and the year :—

Ratio of Wind Velocities.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Means. October to February.	Means. March to May.	Means. June to September.	Means. Year.
New Dines to Rob. Beckley (1924-32.)	1·45	1·45	1·38	1·38	1·43	1·48	1·73	1·72	1·61	1·53	1·55	1·47	1·49	1·40	1·63	1·51

The hourly values of wind velocity and wind direction tabulated in this volume represent the averages of the Dines' records for periods of sixty minutes, from full hour to full hour of local mean time. The daily mean directions have been derived by converting the hourly velocity into N or S and E or W components and combining the mean components.

7. *Rain-gauge.*—Newman's rain-gauge, which has been in use since 1845, exposes for the collection of rain-drops at a height of four feet above the ground a circular surface of an average diameter of 12·035 inches, forming the tip of the funnel, which opens into a cylindrical vessel below, having a diameter of 5·732 inches. Each division of the graduated rod resting on the float represents ·05 inch of rain and the readings of this scale are easily estimated to one-fifth of a division.

8. *Photographic Rain-gauge.*—This instrument takes a continuous record of rainfall by photographing the head of a mercury column balancing the rainfall collected in a glass vessel, with an arrangement for syphon discharge when full. A full description of this instrument will be found in the introduction to the " Bombay Magnetical and Meteorological Observations, 1877 to 1878 ", page xlvi. For methods of reduction of pluviograph records, reference is made to the introduction to the " Bombay Magnetical, Meteorological and Seismographic Observations, 1916—20 ". The height of the receiving funnel of this instrument is 28 feet above the ground. On account of its greater height, the pluviograph gives a lower value for rainfall than that by Newman.

For comparative study a syphon rain-gauge by L. Casella, London, was installed in the enclosure of the standard Newman rain-gauge on the 12th June 1930, so that the receiving funnels of both were at the same height. It was removed to a separate enclosure on the 28th April 1931 and its receiving funnel was kept at the standard height of 30 inches above the ground surface.

Magnetic Instruments at Alibag.

Variation Instruments.

The horizontal force, vertical force and declination magnetographs in use at Alibag are all by Watson and are mounted on isolated pillars in the magnetograph room. They were maintained in continuous action throughout the year. As explained on pages 1-2 of the Observatory volume for 1927, the sensitiveness of the vertical force magnetograph was increased eight-fold on the 7th August 1927 by introducing certain alterations in the mechanism for adjusting the position of the centre of gravity of the 'balance'. The instrument worked very satisfactorily throughout the year and furnished excellent records of the changes in the vertical force.

A declination magnetograph with high optical magnification (1cm.=3·43 minutes of arc) was constructed locally and installed in the ground floor room of the magnetometer building. It was in continuous action throughout the year. The records furnished by this instrument are identical with those obtained with the Watson declination magnetograph except that the variations are shown in a more conspicuous manner.

The maximum and minimum temperatures in the magnetograph room during 1932 are shown below in degrees Fahrenheit.

1932.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	°	°	°	°	°	°	°	°	°	°	°	°	°
Maximum .	83·9	83·6	86·0	88·0	90·4	91·0	89·2	87·9	88·7	89·3	88·6	87·1	91·0
Minimum .	83·2	82·9	83·1	85·9	88·0	88·8	85·0	84·9	87·3	88·6	86·7	84·1	82·9

Two Eschenhagen variometers, one for horizontal force and the other for vertical force, are also installed in the magnetograph room and are read five times every day. A set of Kew Horizontal Force Magnetometer, Kew Vertical Force Magnetometer and Declination Magnetometer is installed in the ground-floor room of the magnetometer building as auxiliary eye-reading instruments. The eye observations were regularly plotted and were used mainly for a comparative study of the performance of the different instruments. The magnetograms have been used in deducing the tabulated results. The hourly tabulations represent the average values during one hour, centred at the full hours of Greenwich Mean Time.

The scale coefficients of the force magnetographs were obtained every fortnight from deflection observations performed on the instruments with deflectors, at distances of 100 cm. and 120 cm. in the case of H and at distances of 124·05 cm. and 148·6 cm. in the case of V magnetographs. The usual distribution coefficient $(1 + \frac{P}{r^3})$ was introduced in the formula for the computation of scale coefficients. It was found that the mean values of the factor in the case of H. F. magnetograph were for both

the distances equal to unity and in the case of V. F. magnetograph 1·13 and 1·09 for the nearer and the longer distances respectively. The value of the scale coefficient adopted for any month is the mean of the mean observed value for that month and those for the preceding and succeeding months.

The following table gives the scale coefficients for 1 cm. ordinate on the photographic paper of the force magnetographs in γ, where as usual, γ =0·00001 C. G. S. unit of force.

Instrument.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
H. F. Magnetograph	45·3	45·4	45·3	45·2	45·1	45·1	45·1	45·0	44·7	44·3	44·2	44·3
V. F. Magnetograph	12·3	12·3	12·6	12·7	13·1	13·0	12·8	12·7	12·7	12·9	13·5	13·2

The scale coefficient of the Watson declination magnetograph for 1 cm. of ordinate is 10′·28.

The temperature coefficient for the horizontal force magnetograph has been determined by heating experiments and its adopted value is ·000036 in C. G. S. unit for 1° Fr. The temperature coefficient of the vertical force magnetograph was found by similar experiments to be negligible as no appreciable change in force, after allowing for the actual diurnal change, could be definitely ascertained as being due to temperature effect. The above conclusions have been checked by an analysis of the observed monthly values of base* lines by means of the formula $B_t = B_m + \alpha (t - m)$, where B_t is the monthly mean value of the base line, uncorrected for temperature but corrected for the slow secular change caused by the loss of magnetic moment and other causes, t the mean temperature during the month, B_m the annual mean of the observed values of the base line, m the annual mean temperature of the magnetograph room, and α the temperature coefficient. Several years' data have been analysed in this manner. The mean value of α for H. F. based on the data for the years 1924-32 is ·000052 in C. G. S. unit for 1° F. The adopted value is thus seen to be smaller by about 30 per cent. than that obtained by this method, but no correction has been introduced in the reduction on account of this difference. For V. F. the value of α appears to be negligible.

Absolute Instruments.

Two magnetometers have been under regular observations during the period for obtaining the absolute values of horizontal force and declination. Magnetometer No. 7 by T. Cooke and Sons, which is the standard instrument at Alibag, is of the ordinary type of Kew pattern instruments but is modified and improved in several important details. The other instrument is Magnetometer No. 3 by the Cambridge Scientific Instrument Company and is of the usual Kew pattern. Instrument No. 7 is observed on the second floor of the magnetometer building, while instrument No. 3 with magnets No. 137 is observed on the first floor and with magnets No. 3 on the second floor. A pair of new magnets No. 7 with their constants determined at the Greenwich Magnetic Observatory (Abinger) was received from Messrs. Cooke, Troughton and Sims, Limited, and observations of Horizontal Force and Declination were taken every twelve weeks with these magnets and magnetometer No. 7 on the second floor throughout the year for comparative purposes. The results show very close agreement with those obtained with the old magnets No. 7.

The value of the correction, $\text{Log}_{10}(1+\frac{P}{\mu}+\frac{Q}{\mu})^{-1}$ used in the reduction of the horizontal force observations was obtained for a given month by taking the mean for seven months including the given month as fourth of the seven. The values of this correction for the different months of the year for the standard instrument at the deflection distance 22·5 cm. were as follows:—

January	.. 9·99277	May	.. 9·99290	September	.. 9·99295
February	.. 9·99275	June	.. 9·99296	October	.. 9·99297
March	.. 9·99280	July	.. 9·99298	November	.. 9·99294
April	.. 9·99285	August	.. 9·99294	December	.. 9·99295

Earth Inductor No. 41 by Schulze of Potsdam and galvanometer No. 200 by Plath are installed on specially constructed pillars in the second floor, while Inductor No. 108 by Otto Toepfer and its galvanometer are installed in the first floor of the magnetometer building. Both these instruments were in regular use.

*Memoirs of the India Meteorological Department, Vol XXV, Part VII.

System of observation at Colaba.

From the beginning of 1929, the eye observations of the barometer and thermometers at 10 hrs. and 16 hrs. were stopped but continued to be taken at 8 hrs. An afternoon observation at 17 hrs., Indian Standard Time, was however introduced from the 15th November 1929.

The eye observations at 8 hrs. (local time) and 17 hrs. (Indian Standard Time) were taken in the following order :—

From 5 minutes to the hour to 2 minutes after the hour.	Extent and description of clouds, state of weather occasional phenomena and direction of the wind.
At 2 ,, ,, ,,	Thermograph standard thermometer, dry-bulb. Thermograph standard thermometer, wet-bulb.
At 3 ,, ,, ,,	Newman's rain-gauge (in wet season).
From 7 to 9 ,, ,,	Newman's standard barometer No. 58 and attached thermometer. Newman's standard barometer No. 48 and attached thermometer (read at 8 hrs. only).
At 10 ,, ,, ,,	Thermometer attached to barograph (read at 8 hrs. only).

Observations of the extent and description of clouds, state of weather, occasional phenomena and rainfall (in wet season) were also taken at 6, 10 and 22 hrs. Observations with nephoscope were taken at 8½, 12½ and 16½ hrs. every day. The maximum and minimum thermometers in the Stevenson Screen were read twice daily at 8 hrs. and 16 hrs.

During the monsoon months, Newman's rain-gauge was read daily at midnight in addition to the usual observations and the discharges of the syphon of the self-registering pluviograph were also read as often as required.

A Campbell-Stokes Sunshine recorder was installed on the balloon observation tower, and was brought into regular use from August 1925.

Observations of magnetic declination were made once every month at Colaba about the 15th of each month. The mean of the differences between the observed absolute values of declination at Colaba and Alibag, from 1906 to 1932, is 52'·0 and this agrees fairly well with the value obtained by the comparative observations taken at the two stations in the years, 1904 and 1905.

Time-supply service.

The electric clock in the Colaba Observatory controlling the drop of the time ball was duly regulated once every day by comparison with the standard sidereal clocks, two Riefler and one Kullberg. Government chronometers, belonging to the Royal Indian Marine and the Royal Navy, were wound daily or twice a week as required and comparisons with the standard clock were made with sufficient frequency to render the instruments always ready for issue at call with well-determined rates.

Experience during the past few years showed that the time signals broadcasted from Bordeaux, Rugby and Nauen could be received at Bombay almost every day. Further observations of transits of stars were therefore no longer considered necessary. They were accordingly discontinued with effect from the 28th May 1928. The two transit instruments in the Observatory were, however, maintained in a condition such that they could be brought into use any time should the wireless signals fail to be received for any reason. Observations of rhythmic signals broadcasted from Bordeaux and Rugby were taken regularly during the year.

System of observation at Alibag.

Eye observations of the instruments mentioned below were taken daily, Sundays included shortly before 6, 10, 14, 16 and 22 hrs. at the instants specified against them.

These instants have been chosen so that they may approach as nearly as possible to the full hour of Greenwich Mean Time, which corresponds to 51 mins. of local time.

At 15 minutes to the hour	. Declination Magnetometer and thermometer in the Magnetometer room.
„ 11 „ „ „	. Eschenhagen's Vertical Force Variometer and attached thermometer.
„ 10 „ „ „	. Watson's Vertical Force Magnetograph and attached thermometer.
„ 9 „ „ „	. Watson's Declination Magnetograph.
„ 8 „ „ „	. Watson's Horizontal Force Magnetograph and attached thermometer.
„ 7 „ „ „	. Eschenhagen's Horizontal Force Variometer and attached thermometer.
„ 6 „ „ „	. Thermograph and the standard thermometer in the Magnetograph room (read twice daily at 6 and 16 hrs. only).

Deflection experiments, with vibration magnet of magnetometer No. 137, the moment of which is determined every four weeks as deflector at distances of 100 cm. and 120 cm. on the horizontal force magnetograph and at distances of 124·05 cm. and 148·6 cm. on the vertical force magnetograph were made once every fortnight. Similar deflection experiments with vibration magnet of magnetometer No. 3 as deflector were made once a month for the purpose of check work.

Deflection experiments, with vibration magnet No. 137 as deflector at a distance of 100 cm. on the Eschenhagen's horizontal force variometer, and at a distance of 75 cm. on the Eschenhagen's vertical force variometer, were also made once a fortnight.

Observations of absolute horizontal force were made with the Observatory standard instrument No. 7 and magnets No. 7 (old) on Wednesdays. Observations of absolute horizontal force were also taken with—

(1) the auxiliary magnetometer No. 3 and magnets No. 137 on Mondays every four weeks,
(2) the auxiliary magnetometer No. 3 and magnets No. 3, on Mondays every six weeks and with,
(3) the standard magnetometer No. 7 and magnets No. 7 (new) on Fridays once in twelve weeks.

Observations of absolute declination were made with the standard magnetometer No. 7 and magnet No. 7 (old) on Thursdays. Observations of declination were also taken for comparative study with—

(1) magnetometer No. 3 and magnet No. 137 on Thursday once in eight weeks,
(2) magnetometer No. 3 and magnet No. 3 on Thursday once in six weeks, and
(3) standard magnetometer No. 7 and magnet No. 7 (new) on Thursday once in twelve weeks.

Observations of inclination were made with the Schulze's Inductor, which is the Observatory standard instrument, and another inductor by Otto Toepfer every day in the year with the exception of Sundays and holidays. Each of the two inductor instruments was ordinarily observed on alternate days, but for check work both the instruments were observed one after the other on Saturdays.

Transit observations of stars for the determination of time were made generally on Tuesdays and Fridays in the dry months; during the monsoon months no opportunity was lost of observing the sun or stars whenever visible. The adjustment of the transit instrument was frequently tested by reference to the fixed collimator mark and by level observations; the errors of collimation, level and azimuth were determined once every month except during the monsoon months. A complete observation of all the meteorological elements was taken at Alibag at 8 hrs. (local time) throughout the year.

General Review.

1. *Weather.*—The southwest monsoon rains commenced at Bombay on the 16th June and practically ended on the 28th October. The total rainfall recorded during the year amounted to 73·69″ and was 3·12″ above the normal of 72 years. The mean temperature of the year was 80°·8 which was 1°·5 above the normal. The greatest maximum temperature recorded was 96°·0 on the 6th March and the lowest minimum was 63°·8 on the 30th December. The mean temperature of all the months in the year was within 2° of the normal of the season. The mean velocity of wind during the year was 9·8 miles per hour. The greatest daily mean velocity was 21·4 miles per hour on the 14th July

and the lowest was 4·7 miles per hour on the 3rd July. The greatest mean hourly velocity was 27 miles on the 4th July while the velocity of a single gust of wind as recorded by the New Dines' anemometer reached 62 miles per hour on the 21st May.

2. *Magnetic conditions.*—The mean and the extreme values of the magnetic elements at Alibag during 1932 are given below along with the corresponding values for the previous eleven years :—

Year.	H						D						V						I
	Mean.	Maximum.		Minimum.		Absolute annual range.	Mean.	Maximum.		Minimum.		Absolute annual range.	Mean.	Maximum.		Minimum.		Absolute annual range.	Mean
		Value.	Date.	Value.	Date.			Value.	Date.	Value.	Date.			Value.	Date.	Value.	Date.		
	γ	γ		γ		γ	′	′		′		′	γ	γ		γ		γ	° ′
1921	36935	37069	13th May.	36381	15th May.	688	15·9 E.	41·9 E.	15th May.	9·5 E.	7th July.	32·4	17227	17320	15th May.	17144	20th Jan.	176	25 0·8
1922	36946	37037	10th Mar.	36777	14th Sept.	260	12·6 E.	18·0 E.	16th Feb.	6·6 E.	31st Aug.	11·4	17293	17351	12th Aug.	17222	5th Apr.	129	25 5·0
1923	36985	37071	27th Nov.	36854	24th Mar.	217	8·9 E.	13·6 E.	26th Jan.	3·6 E.	24th Sept.	10·0	17372	17432	3rd July.	17270	25th Jan.	162	25 9·4
1924	37029	37142	16th Oct.	36854	10th June.	288	5·6 E.	10·5 E.	29th Jan.	0·4 E.	15th Sept.	10·1	17452	17514	26th Dec.	17379	19th Jan.	135	25 14·1
1925	37035	37170	9th Mar.	36899	28th Dec.	271	3·4 E.	8·2 E.	24th May	2·0 W.	4th Sept.	10·2	17527	17589	25th Dec.	17421	21st Jan.	168	25 18·5
1926	37079	37227	26th Jan.	36755	15th Apr.	472	0·8 E.	9·9 E.	15th Apr.	4·9 W.	24th Aug.	14·8	17590	17654	15th Oct.	17504	4th Jan.	150	25 22·7
1927	37119	37350	22nd Oct.	36802	12th Oct.	548	1·9 W.	6·0 E.	22nd July.	8·6 W.	21st Aug.	14·6	17650	17710	24th Sept.	17565	14th Sept.	145	25 25·9
1928	37152	37463	7th July.	36718	8th July.	745	3·8 W.	11·6 E.	8th July.	9·0 W.	10th Sept.	20·6	17698	17778	28th May.	17608	30th April.	170	25 28·8
1929	37209	37316	11th Aug.	36988	12th Mar.	328	5·9 W.	0·5 W.	16th Apr.	11·1 W.	5th Sept.	10·6	17736	17797	24th Nov.	17655	29th Jan.	142	25 29·1
1930	37253	37373	14th Oct.	37021	16th June.	352	8·0 W.	2·6 W.	31st May.	12·7 W.	25th Aug.	10·1	17777	17886	6th Oct.	17692	12th Jan.	144	25 30·6
1931	37323	37417	17th Oct.	37097	29th Oct.	320	10·5 W.	5·7 W.	15th Apr.	15·8 W.	30th June.	10·1	17806	17869	11th Nov.	17726	20th May.	143	25 30·3
1932	37364	37460	25th Nov.	37223	30th May.	237	12·7 W.	7·0 W.	30th May.	18·1 W.	2nd July.	11·1	17830	17895	5th Nov.	17756	29th April.	139	25 30·6

The value of H has been steadily increasing since 1916. The increase from 1931 to 1932 is 41γ and is slightly less than the average rate of increase, namely 42γ, during the last 10 years. Declination diminished during the year at a rate which is nearly the same as that during the last ten years. The vertical force showed, as usual, a gradual increase, but the inclination which was increasing at a gradually decreasing rate during the previous few years and came to a halt during the last year had almost the same value as in the previous year.

The following table gives the character figure assigned to each day according to the international scheme. In accordance with the De Bilt circular letter of 1924, the figures have been deduced from a study of the departure of each day's range from the normal range for the day supplemented by an eye examination of the magnetograms.

Month.	"0" days.	"1" days.	"2" days.	Mean character figure.
1932.				
January . .	4, 5, 6, 17, 18, 19, 20, 21, 22, 23, 30	1, 2, 3, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 24, 26, 28, 29, 31	25, 27	0·71
February .	1, 2, 15, 16, 17, 18, 21, 26, 27, 28, 29	5, 6, 7, 8, 9, 11, 12, 13, 14, 19, 22, 23, 24, 25	3, 4, 10, 20	0·76
March . .	1, 12, 13, 15, 16, 17, 19, 24, 25, 26, 27	4, 5, 6, 7, 8, 9, 11, 14, 20, 21, 22, 23	2, 3, 10, 18, 28, 29, 30, 31	0·99
April . .	11, 12, 19, 20, 21, 29, 30	1, 2, 3, 4, 5, 6, 8, 9, 10, 14, 15, 16, 17, 18, 25, 26, 27, 28	7, 13, 22, 23, 24	0·93
May . . .	1, 7, 8, 9, 12, 17, 18, 19, 20, 24	2, 3, 4, 5, 6, 10, 11, 13, 14, 15, 16, 21, 22, 23, 25, 26, 27, 28, 31	29, 30	0·74
June . .	1, 2, 3, 4, 5, 6, 13, 14, 15, 16, 17, 18, 19. 23, 24, 27, 28, 29, 30	7, 8, 9, 10, 11, 12, 20, 21, 22, 25, 26		0·37
July . .	1, 2, 3, 11, 12, 13, 14, 15, 18, 19, 20, 22, 23, 25, 26, 27, 28, 29, 30	4, 5, 6, 7, 8, 9, 10, 17, 21, 24, 31	16	0·42
August . .	6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18, 19, 20, 24, 25, 26, 31	1, 2, 4, 5, 12, 13, 21, 22, 23, 29, 30	3, 27, 28	0·55
September .	3, 4, 10, 11, 12, 13, 14, 15, 16, 17, 21, 28, 29, 30	1, 2, 5, 7, 8, 9, 18, 19, 20, 22, 24, 25, 26, 27	6, 23	0·60
October . .	1, 6, 7, 8, 11, 12, 13, 14, 26, 28, 29, 31	2, 3, 4, 5, 9, 10, 16, 17, 18, 19, 21, 22, 23, 24, 25, 27, 30	15, 20	0·68
November .	6, 7, 8, 9, 10, 11, 19, 20, 21, 22, 23, 24, 26, 27, 30	1, 2, 3, 4, 5, 12, 13, 14, 15, 17, 18, 25, 28, 29	16	0·53
December .	2, 3, 4, 5, 6, 7, 11, 12, 20, 21, 22, 23, 29	1, 9, 10, 17, 18, 19, 24, 26, 27, 28, 30, 31	8, 13, 14, 15, 16, 25	0·77

The annual mean character figure, as assigned by the Observatory, to the year 1932 is 0·66, while that assigned to the year 1931 is 0·58 and to 1930, 0·76. The corresponding De Bilt figures are 0·71, 0·66 and 0·83 respectively. Both the international as well as the local characterisations therefore suggest that the year 1932 as a whole was almost as disturbed as the previous year. This is what is to be expected, as we are approaching the year with minimum number of sunspots. April was the most active and June the most inactive month in the year.

Absolute observations and Base Line Values.

Declination.

Absolute observations of declination were made once a week on Thursdays with the standard magnetometer No. 7. For comparative purposes, an observation of declination was taken immediately afterwards with the auxiliary magnetometer, No. 3 as already indicated.

Base-line values are derived by converting the ordinates corresponding to absolute observations with instrument No. 7 and magnet No. 7 (old) into angles and subtracting the converted ordinates from the observed absolute declination. The values so obtained of the base-lines of the declination magnetograph denote westerly declination.

The adopted values are derived by taking overlapping means of 5 successive observations and reducing them to the proper epoch, values for intermediate days being obtained by simple interpolation.

Declination base-line values, 1932.

(0° *plus* tabular minutes.)

Date.	Observed.	Adopted.	Date.	Observed.	Adopted.	Date.	Observed.	Adopted.
	′	′		′	′		′	′
January 7 .	70·3 W	70·2 W	May 5 .	70·3 W	70·0 W	September 1	69·4 W	69·6 W
„ 15 .	70·2	70·3	„ 12 .	69·9	69·7	„ 8 .	69·6	69·6
„ 21 .	70·0	70·3	„ 19 .	69·7	69·6	„ 15 .	69·5	69·6
„ 28 .	70·4	70·4	„ 26 .	68·9	69·3	„ 22 .	69·7	69·6
February 4 .	70·8	70·5	June 2 .	69·2	69·2	„ 29 .	69·7	69·7
„ 11 .	70·8	70·8	„ 9 .	68·7	69·1	October 6 .	70·0	70·0
„ 18 .	70·7	70·9	„ 16 .	69·4	69·2	„ 13 .	69·7	69·8
„ 25 .	71·3	70·9	„ 23 .	69·1	69·2	„ 20 .	69·7	69·6
March 3 .	70·6	70·9	„ 30 .	69·4	69·3	„ 27 .	69·2	69·5
„ 10 .	70·9	70·9	July 7 .	69·4	69·4	November 3 .	69·5	69·5
„ 17 .	70·9	70·8	„ 14 .	69·4	69·5	„ 10 .	69·3	69·4
„ 24 .	70·8	70·7	„ 21 .	69·9	69·6	„ 17 .	69·7	69·5
„ 31 .	70·7	70·6	„ 28 .	69·7	69·7	„ 24 .	69·1	69·4
April 7 .	70·4	70·5	August 4 .	69·7	69·7	December 1 .	69·6	69·5
„ 14 .	70·2	70·3	„ 11 .	69·6	69·7	„ 8	69·2	69·4
„ 21 .	70·2	70·2	„ 18 .	69·7	69·6	„ 15 .	69·8	69·7
„ 28 .	69·8	70·1	„ 26 .	69·7	69·6	„ 22 .	69·2	69·7
						„ 29 .	70·7	69·9

Horizontal Force.

Absolute observations of horizontal force were made every week, on Wednesdays with the standard magnetometer No. 7 and magnets No. 7 (old). Observations with the auxiliary magnetometer No. 3 and magnets No. 3 or No. 137 were taken every six or four weeks on Mondays and also with magnetometer No. 7 and magnets No. 7 (new) on Fridays

once in twelve weeks as already indicated. A day's observations comprise a double set of vibration and deflection experiments at three distances, which for No. 7 are 22·5 cm., 30 cm. and 40 cm. In calculating the base-line values the mean of the observed values at all the three distances has been used.

Base-line values are derived by converting the mean ordinates corresponding to absolute observations with instrument No. 7 in terms of γ and subtracting the converted ordinates from the mean observed absolute horizontal force. They are further reduced to a uniform temperature of 85° F. to make the series comparable from month to month and year to year.

The adopted values are derived by taking overlapping means of 5 successive double sets of observations and reducing them to the proper epoch, values for intermediate days being obtained by simple interpolation.

Horizontal force base-line values at 85° F., 1932.

Date.	Observed.	Adopted.	Date.	Observed.	Adopted.	Date.	Observed.	Adopted.
	γ	γ		γ	γ		γ	γ
January 6 .	37,008	37,011	May 4 .	37,018	37,015	September 7 .	37,001	37,007
„ 13 .	009	010	„ 11 .	012	015	„ 14 .	011	010
„ 20 .	013	010	„ 18 .	016	014	„ 21 .	019	019*
„ 27 .	007	009	„ 25 .	012	013	„ 28 .	140	140
			June 1 .	37,013	37,013			
February 3 .	37,014	37,009	„ 8 .	013	013	October 5 .	37,149	37,148
„ 10 .	003	008	„ 15 .	012	010	„ 12 .	155	147
„ 17 .	010	009	„ 22 .	012	009	„ 19 .	145	148
„ 24 .	008	006	„ 29 .	001	006	„ 26 .	146	148
March 2 .	37,008	37,006	July 6 .	37,004	37,004	November 2 .	37,145	37,146
„ 9 .	002	007	„ 13 .	36,998	001	„ 9 .	148	145
„ 16 .	003	007	„ 20 .	37,002	36,999	„ 16 .	143	145
„ 23 .	011	005	„ 27 .	36,997	999	„ 23 .	145	142
„ 30 .	013	005	August 3 .	36,996	37,000	„ 30 .	142	141
April 6 .	37,005	37,007	„ 10 .	37,000	000	December 7 .	37,133	37,138
„ 13 .	005	007	„ 17 .	007	001	„ 14 .	141	136
„ 20 .	013	011	„ 25 .	003	003	„ 22 .	131	134
„ 27 .	017	013	„ 31 .	001	005	„ 28 .	136	135

* Adjustment of H. F. magnetograph.

Vertical Force.

Dip observations with inductors were made every day in the year, with the exception of Sundays and holidays, each of the two instruments being observed on alternate days.

Base-line values are derived by expressing the mean ordinates of V. F. magnetograms corresponding to the inclination observations in terms of γ and subtracting the converted ordinate from the absolute vertical force obtained by multiplying the value of H. F. at the time by the tangent of inclination given by Inductor observations. Values derived from Inductor No. 108 are reduced to those derived from Inductor No. 41 (which is the Observatory standard) by applying the mean correction for the month deduced from the comparative observations taken on Saturdays of every week.

The adopted values are derived by taking overlapping means of 7 successive observations and reducing them to the proper epoch, values for those days not given by this operation being obtained by simple interpolation.

The vertical force magnetograph was adjusted on the 6th August, and 8th November 1932. As already remarked the sensitiveness of the instrument increased eight times in consequence of the change introduced on the 7th August 1927 in the mechanism for altering the sensitiveness.

Vertical force base-line values, 1932.

Date.	Observed.	Adopted.	Date.	Observed.	Adopted.	Date.	Observed.	Adopted.
	γ	γ		γ	γ		γ	γ
January 6	17,742	17,758	May 4	17,737	17,746	September 7	17,715	17,717
„ 13	770	762	„ 11	723	737	„ 14	752	741
„ 20	774	761	„ 18	730	746	„ 21	736	729
„ 27	760	762	„ 25	728	733	„ 28	697	713
			June 1	724	710			
February 3	797	775	„ 8	726	749	October 5	734	741
„ 10	766	768	„ 15	745	745	„ 12	708	726
„ 17	770	754	„ 23	756	759	„ 19	734	737
„ 24	740	757	„ 29	773	786	„ 26	703	734
March 2	794	786	July 6	833	836	November 2	785	772
„ 9	785	786	„ 13	820	838	„ 9	*734	743
„ 16	758	758	„ 20	889	870	„ 16	741	743
„ 22	799	777	„ 27	808	821	„ 23	748	749
„ 30	734	748	August 3	859	849	„ 30	772	762
April 6	750	759	„ 10	791	781*	December 7	753	760
„ 13	770	759	„ 17	760	754	„ 14	745	749
„ 20	756	762	„ 26	730	746	„ 21	731	739
„ 27	759	770	„ 31	731	734	„ 28	759	754

* Adjustment of V. F. magnetograph.

Seismographs.

Two Milne-Shaw Seismographs (N-S and E-W components), were in continuous action in the underground constant temperature room, and both gave excellent records of earthquakes and microseisms during the year. The earthquakes recorded by these instruments will be found tabulated towards the end of the volume. The locally constructed seismograph of the Omori type (N-S and E-W components) was kept in continuous operation during the year as an auxiliary instrument. The Omori-Ewing Seismograph (E-W component) was transferred to Rangoon in June 1931.

Magnetic Storms.

In plates I, II, III, IV and V are reproduced disturbed magnetic records for days recommended for publication by the International Commission of Terrestrial Magnetism. The base-line values and scale co-efficients are shown with each curve. The hourly breaks last for 2 to 3 minutes and the time shown against a break is the time for the middle of the break expressed in Greenwich Mean Time. Increasing ordinates for H. F. and V. F. curves mean increase in force, and for the declination curves decrease in westerly declination.

Atmospheric Electricity.

Observations of the variation in the potential gradient were continued during the year. A photographic electrograph by Cambridge Instrument Co., as described in the Journal of Scientific Instruments, Vol. V, May 1928, pages 14—152, was received in May 1930 and installed on the 13th June 1930 in the old Milne seismograph room. It was removed to a specially constructed room in the open space near the sea coast on the 28th February 1931 and its radium collector was exposed through a hole in the wall at a height of 168 cm. above ground and on undisturbed days at a distance of 40 cm. from the wall. The values of the potential gradient centred at every sixth hour of Greenwich mean time have been given in this volume.

S. C. ROY,
Meteorologist, Bombay.

Colaba Observatory, Bombay,
The 3rd November 1933.

Meteorological Tables.

(Colaba Observatory.)

JANUARY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·953	29·942	29·941	29·932	29·943	29·951	29·974	29·993	30·020	30·025	30·023	30·001	29·971	29·943
2	·975	·960	·954	·950	·965	·974	30·002	30·024	·058	·065	·067	·042	30·007	·981
3	30·054	30·040	30·032	30·016	30·031	30·032	·059	·066	·106	·117	·110	·078	·040	30·007
4	·025	·008	29·991	29·981	29·993	·003	·022	·037	·069	·070	·068	·042	·015	29·992
5	29·977	29·965	·952	·945	·947	29·953	29·985	29·996	·020	·024	·020	29·994	29·965	·933
6	·955	·946	·938	·936	·939	·951	·984	30·003	·031	·031	·026	·999	·975	·954
7	·974	·971	·971	·969	·981	·991	30·020	·036	·074	·083	·083	30·053	30·067	·982
8	30·012	·997	·986	·970	·969	·971	29·987	·003	·037	·042	·045	·028	29·989	·964
9	·018	·997	·985	·984	·986	·991	30·031	·049	·076	·083	·078	·050	30·020	·992
10	·049	30·043	30·036	30·035	30·045	30·054	·076	·087	·120	·118	·119	·100	·079	30·046
11	·077	·057	·058	·047	·054	·064	·086	·097	·123	·123	·116	·094	·055	·025
12	·065	·059	·047	·040	·051	·054	·078	·094	·142	·147	·138	·107	·079	·048
13	·064	·048	·036	·026	·035	·042	·069	·087	·128	·130	·129	·107	·072	·043
14	·067	·051	·045	·037	·044	·053	·076	·085	·123	·128	·123	·100	·072	·039
15	·074	·063	·051	·045	·041	·047	·069	·085	·117	·119	·106	·085	·053	·030
16	·048	·033	·022	·009	·013	·017	·038	·052	·094	·106	·101	·078	·053	·010
17	·025	·005	29·989	29·976	29·985	29·984	·014	·030	·063	·068	·064	·038	·005	29·980
18	29·981	29·966	·958	·949	·958	·966	29·996	·020	·071	·083	·081	·057	·027	·999
19	·998	·982	·971	·952	·962	·970	30·001	·023	·074	·082	·082	·054	·028	·989
20	30·001	·984	·977	·965	·968	·977	·012	·032	·068	·070	·071	·047	·012	·985
21	29·997	·978	·967	·958	·966	·972	·002	·016	·059	·067	·068	·052	·012	·983
22	30·037	30·019	30·009	·997	·994	30·002	·028	·045	·072	·080	·072	·041	·005	·977
23	·001	29·988	29·986	976	·978	29·982	·011	·032	·068	·076	·074	·045	·011	·977
24	29·980	·964	·953	·941	·947	·950	29·979	29·988	·023	·029	·029	·003	29·972	·941
25	·965	·951	·943	·933	·940	·948	·976	·990	·024	·029	·026	·001	·971	·942
26	·964	·948	·941	·936	·949	·955	·988	30·005	·045	·049	·045	·019	·988	·956
27	·959	·946	·935	·922	·936	·942	·965	29·978	·014	·025	·025	29·993	·960	·934
28	·928	·915	·895	·882	·884	·889	·905	·915	29·959	29·968	29·966	·948	·916	·876
29	·888	·877	·872	·868	·872	·881	·902	·916	·948	·956	·957	·931	·900	·869
30	·839	·881	·874	·869	·875	·881	·910	·928	·969	·976	·973	·950	·928	·896
31	·908	·889	·871	·858	·856	·857	·878	·900	·936	·941	·938	·911	·883	·850
Mean .	29·997	29·983	29·974	29·965	29·971	29·978	30·004	30·020	30·056	30·062	30·059	30·034	30·002	29·972
Variation	+·003	—·011	—·020	—·029	—·023	—·016	+·010	+·026	+·062	+·068	+·065	+·040	+·008	—·022
Mean in milibars.	1015·84	1015·30	1015·03	1014·77	1012·93	1015·17	1016·03	1016·60	1017·80	1018·07	1017·91	1017·03	1015·97	1014·97
Variation in milibars.	+·14	— 40	—·67	—·93	—·77	—·53	+·33	+·90	+2·10	+2·37	+2·21	+1·33	+·27	—·73

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1	29·855	29·839	29·832	29·817	29·826	29·832	29·851	29·863	29·896	29·907	29·908	29·886	29·863	29·839
2	·856	·846	·845	·838	·856	·869	·898	·916	·951	·965	·951	·927	·895	·869
3	·906	·888	·877	·880	·882	·891	·926	·938	·968	·970	·962	·935	·912	·882
4	·891	·874	·874	·862	·864	·868	·895	·907	·938	·944	·934	·909	·877	·844
5	·839	·824	·812	·807	·813	·813	·840	·857	·898	·902	·904	·874	·847	·822
6	·866	·858	·851	·839	·847	·853	·887	·902	·936	·946	·946	·924	·899	·868
7	·879	·870	·865	·855	·861	·868	·897	·912	·945	·957	·957	·935	·906	·885
8	·900	·876	·862	·848	·858	·864	·899	·925	·965	·974	·969	·948	·920	·896
9	·942	·934	·930	·924	·932	·938	·975	·995	30·029	30·038	30·032	30·006	·974	·941
10	·958	·936	·929	·915	·920	·928	·955	·967	29·989	29·999	·000	29·967	·933	·898
11	·890	·874	·856	·843	·855	·864	·892	·909	·934	·942	29·939	·909	·879	·858
12	·890	·876	·876	·874	·888	·898	·929	·940	·974	·986	·991	·970	·942	·910
13	·954	·935	·940	·937	·941	·957	·988	30·002	30·032	30·040	30·038	30·010	·977	·940
14	·994	·983	·978	·974	·969	·980	30·013	·028	·058	·066	·059	·032	30·009	·984
15	30·018	30·005	·995	·987	·993	30·000	·029	·042	·066	·068	·066	·030	29·985	·940
16	29·930	29·917	·907	·887	·899	29·908	29·942	29·964	·000	·006	·008	29·974	·942	·907
17	·906	·887	·872	·861	·867	·869	·893	·907	29·931	29·943	29·945	·924	·896	·878
18	·887	·867	·857	·849	·856	·857	·878	·893	·918	·934	·937	·925	·906	·877
19	·868	·858	·854	·846	·856	·865	·894	·912	·949	·957	·967	·953	·929	·915
20	·928	·919	·912	·905	·912	·922	·953	·968	·998	30·000	30·004	·981	·954	·924
21	·926	·912	·908	·904	·908	·914	·942	·961	·986	29·995	·000	·983	·957	·933
22	·924	·908	·889	·886	·896	·900	·924	·936	·960	·962	29·958	·938	·900	·858
23	·859	·849	·843	·833	·840	·847	·879	·893	·929	·936	·929	·910	·885	·861
24	·898	·875	·868	·858	·870	·883	·917	·929	·958	·967	·968	·951	·923	·891
25	·927	·913	·911	·905	·915	·921	·937	·957	·983	·993	·987	·963	·934	·903
26	·941	·929	·923	·915	·926	·932	·955	·969	·990	·989	·991	·973	·943	·915
27	·933	·924	·917	·909	·921	·929	·949	·958	·982	·989	·992	·972	·951	·932
28	·965	·951	·945	·937	·950	·958	·981	·993	30·021	30·023	30·022	·993	·965	·934
29	·952	·931	·919	·917	·923	·929	·955	971	·003	·006	·011	·984	·953	·921
Mean .	29·913	29·899	29·891	29·883	29·891	29·899	29·927	29·942	29·972	29·979	29·978	29·955	29·926	29·897
Variation	—·001	—·015	—·023	—·031	—·023	—·015	+·013	+·028	+·058	+·065	+·064	+·041	+·012	—·017
Mean in milibars.	1013·00	1012·50	1012·23	1012·00	1012·23	1012·50	1013·44	1013·97	1014·97	1015·21	1015·17	1014·37	1013·40	1012·44
Variation in milibars	—·01	—·51	—·78	—1·01	—·78	—·51	+·43	+·96	+1·96	+2·20	+2·16	+1·36	+·39	—·57

JANUARY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.		Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24	Inches.	Milibars	Time.	Mag.	Time.	Mag.	
												H. M.		H. M.		
29·931	29·920	29·921	29·930	29·954	29·970	29·990	29·995	29·998	29·977	29 967	1014·84	9 10	30·028	15 58	29·914	1
·963	·949	·950	·958	·986	30·005	30·040	30 048	30·060	30·053	30 001	15·93	9 20	·070	16 5	·943	2
·938	·969	·973	·975	30·002	·016	·042	·048	·050	·034	30·037	17·14	9 45	·121	15 55	·965	3
·968	·960	·957	·957	29·981	29·986	·001	29·997	29·998	29·985	·004	16·63	9 30	·072	16 8	·950	4
·910	·891	·899	·900	·923	·938	29·966	·968	·969	·964	29·959	14·51	9 0	·029	15 55	·889	5
·940	·926	·926	·928	·950	·961	·988	·991	·992	·979	·969	14·91	9 0	·035	16 5	·923	6
·961	·946	·948	·957	·985	30 000	30·025	30·024	30·026	30·014	30.00a	16·03	9 30	·090	16 15	·940	7
·952	·943	·945	·954	·983	29·999	·023	·025	·033	·021	29·995	15·77	10 0	·051	15 45	·937	8
·982	·973	·986	·989	30·014	30·024	·052	·053	·058	·048	30 022	16 67	9 25	·087	15 20	·969	9
30·024	30·015	30·026	30·032	·056	·066	·067	·093	·093	·082	·065	18·17	9 10	·123	15 15	30·005	10
29·994	29·984	·003	·012	·033	·047	·078	·077	·077	·068	·061	18·03	8 52	·127	15 32	29·981	11
30·022	30·010	·020	·030	·041	·053	·072	·076	·079	·069	**·068**	**18·27**	9 25	**·152**	15 40	30·006	12
·018	·005	·012	·014	·033	·042	·071	·075	·076	·067	·060	18·00	9 12	·136	15 50	·002	13
·019	·009	·010	·014	·034	·045	·071	·075	·084	·077	·062	18 07	9 0	·133	15 50	·003	14
·009	·004	·011	·013	·026	·040	·066	·068	·067	·055	·056	17·80	9 15	·122	15 57	·000	15
29·989	29·972	29·977	29·975	·004	·021	·048	·051	·052	·036	033	17·00	9 27	·110	15 45	29·966	16
·956	·945	·943	·950	29·969	29·982	·005	·008	·009	29·993	29 999	15·91	9 0	·074	15 55	·938	17
·966	·952	·955	·963	·987	30·002	·033	·035	·029	30·016	30 002	15·97	9 30	·089	2 20	·943	18
·961	·952	·953	·951	·981	29·996	·021	·021	·022	·013	·002	15·97	9 22	·085	3 45	·947	19
·970	·962	·965	·969	·987	30·002	·028	·033	·027	·008	·005	16·07	9 0	·077	16 27	·959	20
·966	·950	·960	·978	30·003	·016	·045	·052	·048	·041	·007	16·14	9 7	·071	3 55	·953	21
·953	·939	·948	·954	29·976	29·991	·025	·028	·028	·015	·010	16·30	9 10	·083	16 0	·937	22
·950	·931	·931	·933	·948	·962	29·992	29·998	29·997	29·989	29·993	15·70	9 35	·081	16 5	·925	23
·947	·904	·907	·907	·929	·939	·965	·973	·980	·971	·962	14·67	9 10	·033	16 10	·901	24
·927	·911	·913	·913	·936	·946	·972	·975	·976	·969	·962	14·67	9 0	·033	16 0	·907	25
·934	·925	·931	·929	·948	·954	·979	·985	·985	·972	·972	14·97	9 10	·051	16 20	·923	26
·913	·902	·900	·901	·927	·934	·952	·957	·953	·939	·951	14.23	9 20	·035	16 0	·897	27
·848	·831	·838	·847	·877	·892	·911	·916	·916	·898	·901	12·53	9 5	29·974	15 55	·828	28
·849	·835	·840	·847	·869	·883	·909	·907	·909	·894	·891	12·23	9 35	·965	16 0	·831	29
·873	·864	·867	·872	·890	·902	·925	·929	·928	·912	·907	12·74	9 32	·980	15 57	·860	30
·833	·825	**·824**	·829	·841	·858	·878	·885	·884	·865	**·875**	**11·74**	9 10	·946	16 0	**·818**	31
29·951	**29·939**	29·943	29·948	29·970	29·983	30·008	30·012	30·013	30·001	29·994	1015·70					Mean.
—·043	**—·055**	—·051	—·046	—·024	—·011	+·014	+·018	+·019	+·007							Variation.
1014·23	**1013·81**	1014·00	1014·17	1014·90	1015·30	1016·17	1016·37	1016·40	1015·93							Mean in millibars.
—1·47	**—1·89**	—1·70	—1·53	—·80	—·40	+·47	+·67	+·70	+·23							Variation in millibars.

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29·824	29·811	29·814	29·824	29·851	29·859	29·875	29·875	29.871	29·860	29·853	1010·90	9 27	29·921	15 50	29·807	1
·862	·850	·854	·857	·876	·887	·909	·915	.915	·914	·888	12·17	9 20	·967	2 50	·836	2
·857	·850	·853	·853	·874	·878	·889	·890	·896	·890	·898	12·57	9 0	·972	16 0	·846	3
·824	·807	·792	·808	·828	·834	·854	·852	·853	·846	·866	11·40	9 12	·950	16 0	·791	4
·800	**·786**	·789	·794	·826	·837	·865	·872	·876	·864	**·840**	**10·50**	9 10	·908	16 5	**·782**	5
·854	·846	·852	·850	·864	·869	·886	·883	·888	·885	·879	11·81	9 42	·954	4 0	·836	6
·868	·863	·876	·876	·901	·913	·932	·931	·923	·911	·899	12·51	9 50	·965	3 50	·853	7
·883	·873	·881	·884	·905	·918	·946	·950	·954	·918	·910	12·90	9 25	·984	3 40	·846	8
·922	908	·918	·921	·944	·953	·977	·982	·985	·964	·961	14·63	9 25	30·040	15 30	·905	9
·875	·863	·874	·871	·890	·899	·919	·917	·915	·895	·925	13·37	9 25	·005	16 0	·862	10
·835	·822	·832	·840	·856	·871	·894	·898	·900	·894	·879	11·81	9 40	29·956	16 0	·818	11
·891	·886	·891	·899	·931	·941	·964	·966	·974	·966	·927	13·44	9 30	·992	2 15	·868	12
·917	·912	·921	·928	·954	·970	·995	·995	30·010	30·000	·971	14·93	9 40	30·046	15 30	·910	13
·962	·954	·965	·967	·990	30·007	30·028	30·032	·036	·024	**30·004**	**16·03**	9 25	·068	15 10	·950	14
·915	·900	·907	·904	·917	.9·927	29.954	29·952	29·958	29·946	29·979	15·21	9 15	**·074**	16 0	·896	15
·886	·873	·878	·880	·898	·898	·920	·918	·925	·913	·924	13·33	9 25	·010	15 12	·866	16
·861	·845	·853	·857	·875	·884	·901	·909	·910	·897	·890	12·20	9 7	29·949	16 8	·841	17
·858	·847	·845	·846	·863	·877	·893	·890	·889	·877	·880	11·90	9 50	·943	16 44	·837	18
·887	·875	·881	·881	·899	·905	·927	·930	·942	·931	·903	12·60	9 40	·971	3 45	·841	19
·906	·888	·892	·887	·901	·909	·935	·940	·944	·934	·934	13·63	9 20	30·008	15 45	·884	20
·902	·882	·879	·876	·900	·910	·934	·930	·934	·930	·929	13·51	10 0	·002	17 15	·874	21
·830	·816	·814	·814	·830	·841	·868	·870	·868	·861	·885	12·07	9 0	29·968	17 0	·810	22
·845	·823	·825	·830	·855	·868	·901	·905	·917	·908	·874	11·63	9 3	·939	16 15	·821	23
·867	·851	·848	·862	·889	·906	·933	·943	·951	940	·906	12·70	9 10	·973	16 0	·843	24
·882	·863	·874	·879	·904	·921	·951	·950	·957	·947	928	13·47	9 10	30·001	15 30	·859	25
·896	·883	·889	·893	·921	·936	·963	.963	·955	·941	·939	13 81	9 17	29·993	16 22	·889	26
·905	·889	·899	·903	·920	·931	·961	·967	·981	·966	·941	13 93	9 51	·999	15 40	·887	27
·911	·891	·893	·895	·917	·933	·962	·963	·971	967	·956	14·40	9 0	30 031	16 0	·889	28
.899	.883	·893	·891	·912	.921	·946	·947	.959	.940	·940	13·90	8 52	·013	15 50	·881	29
29·877	**29·863**	29·868	29·871	29·893	29·904	29·927	29·929	29·933	29·923	29·914	1013·01					Mean.
—·037	**—·051**	—·046	—·043	—·021	—·010	+·013	+·015	+·019	+·009							Variation.
1011·74	**1011·30**	1011·47	1011·53	1012·30	1012·63	1013·44	1013·50	1013·60	1013·30							Mean in millibars.
—1·27	**—1·71**	—1·54	—1·48	—·71	—·38	+·43	+·49	+·59	+·29							Variation in millibars.

MARCH. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·927	29·907	29·903	29·896	29·915	29·923	29·945	29·964	29·997	30·001	30·002	29·979	29·951	29·917
2	·935	·974	·968	·965	·965	·979	30·004	30·027	30·055	·062	·061	30·036	30·005	·967
3	·935	·971	·963	·947	·958	·961	29·977	29·979	·007	·014	·020	29·997	29·973	·940
4	·951	·938	·931	·923	·933	·941	·962	·971	29·999	·006	·007	·990	·959	·934
5	·957	·932	·922	·906	·919	·927	·957	·970	·994	29·996	29·994	·968	·942	·908
6	·918	·900	·891	·878	·878	·896	·923	·934	·960	·960	·965	·940	·910	·895
7	·915	·894	·889	·880	·881	·883	·910	·913	·937	·940	·947	·920	·895	·861
8	·874	·850	·840	·834	·847	·856	·882	·898	·922	·923	·920	·895	·867	·836
9	·840	·818	·821	·819	·826	·832	·860	·868	·890	·890	·890	·890	·869	·848
10	·873	·861	·857	·851	·865	·873	·897	·911	·926	·927	·923	·900	·872	·839
11	·876	·857	·859	·841	·848	·855	·876	·894	·915	·918	·918	·893	·866	·834
12	·843	·829	·825	·818	·822	·830	·855	·872	·899	·903	·905	·879	·842	·811
13	·858	·838	·833	·828	·837	·847	·870	·881	·907	·907	·904	·883	·854	·822
14	·851	·829	·822	·812	·827	·834	·861	·877	·909	·909	·912	·890	·859	·829
15	·877	·859	·859	·852	·861	·869	·889	·895	·917	·913	·910	·876	·853	·817
16	·867	·856	·848	·842	·858	·864	·883	·896	·916	·912	·913	·895	·860	·829
17	·860	·841	·832	·826	·838	·840	·870	·884	·914	·918	·913	·891	·867	·840
18	·849	·826	·819	·817	·832	·839	·853	·867	·878	·878	·875	·853	·828	·813
19	·838	·820	·814	·803	·812	·822	·846	·860	·880	·880	·878	·854	·830	·798
20	·854	·835	·829	·824	·835	·845	·875	·893	·929	·929	·923	·899	·876	·853
21	·869	·847	·835	·825	·841	·849	·877	·896	·931	·931	·935	·908	·879	·842
22	·867	·851	·843	·834	·839	·841	·863	·875	·895	·893	·890	·863	·835	·800
23	·815	·803	·799	·795	·803	·803	·829	·842	·870	·879	·883	·858	·835	·802
24	·860	·849	·848	·841	·857	·867	·898	·918	·941	·946	·936	·909	·880	·862
25	·896	·881	·896	·891	·900	·914	·943	·945	·961	·955	·955	·936	·921	·899
26	·904	·879	·883	·878	·894	·891	·916	·935	·952	·954	·945	·916	·882	·871
27	·896	·877	·877	·870	·880	·890	·912	·922	·942	·940	·936	·912	·892	·864
28	·858	·842	·840	·828	·834	·838	·866	·880	·912	·910	·911	·888	·870	·850
29	·857	·843	·839	·820	·826	·839	·861	·878	·905	·903	·900	·877	·852	·815
30	·808	·791	·788	·778	·796	·799	·816	·832	·854	·850	·848	·826	·807	·796
31	·825	·810	·808	·810	·828	·838	·869	·898	·924	·921	·920	·902	·872	·836
Mean	29·879	29·862	29·857	29·849	29·860	29·867	29·891	29·905	29·930	29·931	29·930	29·907	29·881	29·853
Variation	+·008	—·009	—·014	—·022	—·011	—·004	+·020	+·034	+·059	+·060	+·059	+·036	+·010	—·018
Mean in milibars.	1011·81	1011·27	1011·04	1010·80	1011·20	1011·44	1012·23	1012·67	1013·50	1013·53	1013·50	1012·74	1011·93	1010·90
Variation in milibars.	+·27	—·27	—·50	—·74	—·34	—·10	+·69	+1·13	+1·96	+1·99	+1·96	+1·20	+·39	—·64

APRIL.

1	29·825	29·813	29·811	29·802	29·806	29·817	29·848	29·875	29·904	29·898	29·889	29·866	29·838	29·816
2	·800	·778	·770	·756	·762	·771	·792	·808	·826	·828	·820	·798	·776	·746
3	·809	·798	·799	·791	·808	·818	·850	·868	·896	·896	·892	·868	·846	·818
4	·810	·791	·795	·793	·816	·808	·838	·855	·880	·884	·892	·872	·854	·822
5	·852	·827	·819	·811	·818	·826	·851	·864	·897	·895	·895	·872	·847	·830
6	·875	·855	·850	·839	·856	·864	·881	·895	·925	·927	·929	·909	·894	·865
7	·856	·838	·834	·830	·833	·847	·874	·887	·905	·904	·899	·879	·862	·838
8	·838	·815	·810	·798	·806	·808	·833	·848	·876	·877	·878	·858	·836	·803
9	·784	·768	·758	·748	·758	·768	·787	·796	·818	·827	·816	·798	·778	·759
10	·793	·774	·768	·762	·782	·783	·799	·806	·813	·810	·804	·779	·751	·714
11	·776	·766	·764	·758	·773	·778	·802	·821	·854	·858	·858	·814	·826	·801
12	·836	·820	·811	·814	·837	·838	·864	·885	·904	·902	·893	·867	·842	·812
13	·820	·802	·788	·778	·803	·825	·856	·870	·898	·891	·881	·858	·832	·810
14	·819	·800	·792	·788	·794	·796	·820	·838	·865	·858	·853	·834	·811	·788
15	·803	·781	·771	·764	·773	·783	·801	·821	·841	·843	·853	·835	·819	·806
16	·795	·771	·765	·755	·779	·791	·824	·839	·844	·869	·869	·852	·836	·806
17	·846	·831	·829	·830	·850	·854	·897	·907	·937	·936	·939	·919	·895	·873
18	·895	·877	·861	·849	·869	·879	·911	·929	·951	·959	·959	·945	·930	·899
19	·891	·869	·861	·849	·857	·864	·882	·896	·914	·909	·898	·878	·857	·834
20	·839	·827	·819	·811	·825	·833	·863	·872	·892	·886	·887	·872	·858	·822
21	·875	·849	·838	·823	·845	·852	·884	·914	·931	·934	·938	·916	·897	·875
22	·888	·868	·855	·851	·867	·874	·899	·916	·915	·947	·936	·924	·904	·873
23	·867	·849	·843	·845	·856	·871	·887	·899	·909	·900	·893	·873	·846	·824
24	·848	·817	·807	·798	·812	·821	·847	·857	·873	·889	·878	·859	·841	·797
25	·847	·826	·808	·799	·813	·823	·844	·852	·878	·865	·865	·855	·829	·811
26	·807	·801	·800	·786	·808	·821	·852	·871	·887	·884	·885	·878	·865	·835
27	·861	·843	·841	·842	·852	·861	·891	·904	·929	·929	·916	·899	·881	·855
28	·901	·895	·873	·856	·863	·863	·889	·906	·929	·925	·914	·896	·861	·826
29	·867	·840	·826	·815	·817	·817	·842	·861	·874	·866	·860	·849	·823	·801
30	·813	·801	·795	·791	·801	·806	·833	·845	·859	·854	·856	·840	·817	·778
Mean	29·838	29·820	29·812	29·805	29·818	29·825	29·852	29·867	29·889	29·888	29·885	29·866	29·845	29·818
Variation	+·007	—·011	—·019	—·026	—·013	—·006	+·021	+·036	+·058	+·057	+·054	+·035	+·014	—·013
Mean in milibars.	1010·17	1009·80	1009·57	1009·27	1009·77	1009·97	1010·87	1011·44	1012·21	1012·17	1012·07	1011·40	1010·67	1009·77
Variation in milibars.	+·27	—·40	—·63	—·93	—·43	—·23	+·67	+1·24	+2·01	+1·97	+1·87	+1·20	+·47	—·43

MARCH. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN INCHES OF MERCURY AT 32°F.)

Hours.										Mean.		Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24	Inches.	Milibars	Time.	Mag.	Time.	Mag.	
												H. M.		H. M.		
29·896	29·886	29·899	29·906	29 926	29·940	29·974	29·990	30·000	29·996	29·943	1014·00	9 0	30·003	15 50	29·883	1
·940	·917	·921	·927	·954	·968	30·000	30·006	·007	·996	**·987**	**15·44**	9 52	**·067**	16 10	·915	2
·911	·890	·900	·904	·918	·935	29·965	29·968	29·970	·960	·959	14·51	9 42	·019	15 50	·889	3
·915	·895	·896	·902	·929	·950	·978	·978	·984	·968	·952	14·27	9 47	·013	16 15	·889	4
·876	·857	·860	·877	·895	·912	·942	·943	·939	·928	·930	13·50	9 15	29·998	15 35	·850	5
·869	·850	·856	·861	·887	·906	·936	·941	·942	·932	·909	12·81	10 15	·968	16 21	·846	6
·837	·815	·821	·825	·850	·866	·894	·897	·896	·885	·885	12·07	9 25	·950	16 0	·810	7
·816	·794	·790	·796	·812	·822	·852	·855	·858	·854	·854	10·93	9 20	·926	16 30	·788	8
·824	·807	·805	·808	·825	·846	·880	·888	·888	·883	·851	10·83	9 40	·892	16 5	·802	9
·823	·806	·816	·824	·846	·853	·879	·885	·890	·877	·870	11·50	9 40	·931	15 50	·805	10
·813	·800	·798	·802	·823	·834	·860	·858	·860	·852	·856	11·00	9 15	·926	16 30	·796	11
·785	·769	·780	·783	·803	·814	·844	·853	·865	·863	·837	10·44	10 0	·909	15 45	·767	12
·795	·777	·785	·785	·804	·817	·842	·853	·859	·851	·843	10·60	9 0	·913	15 40	·775	13
·812	·800	·807	·805	·827	·841	·872	·873	·881	·873	·851	10·83	9 0	·913	15 35	·797	14
·800	·781	·789	·796	·817	·831	·859	·861	·872	·869	·855	10·97	8 42	·921	15 40	·777	15
·809	·792	·802	·802	·823	·834	·862	·869	·871	·865	·857	11·04	9 20	·920	16 0	·790	16
·818	·798	·796	·798	·820	·832	·857	·857	·862	·862	·851	10·83	9 15	·922	15 55	·794	17
·780	·757	·764	·770	·797	·811	·841	·850	·856	·845	·829	10·11	9 5	·881	15 30	·753	18
·776	·765	·772	·784	·812	·826	·855	·859	·872	·858	·830	10·20	9 0	·890	15 15	·762	19
·823	·805	·809	·813	·844	·853	·889	·893	·901	·882	·863	11·30	8 50	·937	15 25	·799	20
·813	·789	·789	·789	·815	·825	·859	·877	·890	·877	·858	11·07	9 0	·939	15 35	·779	21
·768	**·742**	·749	·751	·773	·786	·814	·815	·825	·810	·826	10·00	8 45	·901	15 45	**·733**	22
·782	·757	·755	·761	·799	·811	·839	·853	·863	·861	·821	09·83	9 50	·885	16 5	·749	23
·837	·819	·811	·813	·841	·859	·892	·896	·907	·899	·874	11·63	9 20	·955	16 10	·797	24
·876	·851	·864	·861	·885	·890	·903	·913	·925	·914	·907	12·74	8 15	·923	16 0	·850	25
·844	·823	·820	·819	·841	·854	·888	·900	·902	·894	·887	12·14	9 10	·958	16 30	·812	26
·838	·814	·816	·808	·822	·829	·855	·858	·870	·854	·874	11·63	9 30	·944	17 35	·804	27
·829	·808	·814	·812	·834	·842	·859	·869	·861	·853	·854	10·93	8 40	·914	16 (	·800	28
·790	·777	·773	·772	·793	·800	·810	·814	·829	·812	·833	10·30	9 35	·914	17 10	·766	29
·776	·764	·763	·762	·789	·800	·828	·837	·846	·832	**·808**	**09·37**	8 50	·860	15 35	·760	30
·813	·792	·788	·788	·807	·818	·840	·844	·841	·830	·843	10·60	8 12	·926	16 35	·784	31
29·829	**29·810**	29·813	29·816	29·839	29·852	29·880	29·885	29·891	29·882	29·871	1011·54					Mean.
—·042	**—·061**	—·058	—·055	—·032	—·019	+·009	+·014	+·020	+·011							Variation.
1010·11	**1009·50**	1009·60	1009·70	1010·50	1010·87	1011·90	1012·07	1012·23	1011·97							Mean in millibars
—·43	**—2·04**	—1·94	—1·84	—1·04	—·67	+·36	+·53	+·69	+·43							Variation in millibars

APRIL.

29·790	29·768	29·766	29·769	29·790	29·800	29·816	29·815	29·820	29·804	29·823	1009·90	8 15	29·906	16 0	29·766	1
·738	·730	·734	·740	·768	·784	·806	·806	·816	·808	·782	08·57	8 45	·830	16 0	·724	2
·786	·760	·754	·750	·770	·780	·808	·807	·821	·812	·817	09·74	9 0	·902	17 10	·742	3
·802	·778	·780	·778	·804	·816	·848	·852	·863	·860	·829	10·11	9 15	·894	16 20	·772	4
·805	·787	·791	·791	·814	·829	·867	·875	·883	·871	·842	10·57	8 30	·899	16 0	·785	5
·842	·822	·816	·812	·832	·840	·858	·858	·867	·858	·865	11·37	9 5	·930	17 0	·808	6
·815	·790	·797	·793	·809	·816	·839	·848	·856	·847	·846	10·70	9 0	·912	16 10	·786	7
·780	·760	·758	·749	·766	·765	·796	·798	·802	·789	·811	09·53	8 55	·882	17 10	·746	8
·733	·709	·710	·708	·736	·747	·771	·776	·793	·786	·768	08·07	9 15	·832	16 0	·704	9
·688	**·671**	·678	·680	·704	·726	·760	·774	·788	·779	**·758**	**07·77**	9 30	·816	15 50	**·662**	10
·776	·759	·759	·769	·804	·825	·840	·849	·860	·844	·807	09·34	9 10	·862	16 5	·746	11
·781	·760	·766	·772	·804	·819	·840	·839	·852	·834	·833	10·30	9 0	·908	16 55	·754	12
·778	·757	·756	·758	·784	·798	·817	·825	·828	·825	·818	09·77	8 40	·900	16 0	·748	13
·781	·762	·768	·775	·796	·798	·830	·836	·835	·816	·811	09·53	8 50	·866	16 0	·762	14
·781	·767	·767	·771	·797	·803	·819	·825	·828	·808	·803	09·20	10 0	·857	15 43	·757	15
·789	·775	·793	·799	·816	·827	·857	·857	·865	·849	·818	09·77	10 0	·871	3 0	·753	16
·854	·837	·846	·853	·881	·893	·914	·913	·919	·905	·882	11·97	10 0	·947	3 0	·827	17
·887	·863	·860	·856	·877	·887	·903	·909	·919	·903	**·890**	**12·51**	9 10	·967	3 5	·847	18
·809	·784	·785	·787	·815	·825	·848	·855	·865	·845	·853	10·90	8 40	·920	17 0	·777	19
·809	·794	·795	·800	·830	·843	·875	·885	·887	·878	·846	10·70	8 40	·893	16 50	·783	20
·811	·821	·821	·838	·858	·867	·891	·897	·902	·886	·875	11·67	9 40	·947	16 35	·815	21
·851	·831	·825	·826	·853	·856	·884	·881	·890	·876	·880	11 60	8 30	·949	16 15	·819	22
·794	·768	·767	·767	·793	·808	·841	·851	·864	·861	845	10 67	7 50	·911	16 10	·759	23
·783	·759	·751	·751	·799	·822	·856	·863	·872	·859	·827	10·04	9 35	·887	16 30	·749	24
·791	·781	·772	·780	·808	·820	·831	·827	·831	·810	·823	09 90	8 0	·869	16 30	·765	25
·818	·796	·790	·798	·829	·846	·858	·866	·877	·866	·839	10·51	8 0	·889	16 15	·781	26
·834	·814	·807	·810	·843	·867	·890	·891	·905	·896	·869	11·51	9 0	·931	16 50	·805	27
·799	·775	·773	·779	·803	·814	·849	·852	·871	·869	·858	11·07	8 35	·933	16 10	·761	28
·775	·748	·743	·735	·758	·771	·817	·825	·834	·813	·816	09·70	8 0	·877	16 10	·773	29
·752	·726	·723	·730	·756	·767	·794	·804	·808	·785	·727	09·04	8 0	·861	16 20	·717	30
29·795	**29·775**	29·775	29·777	29·803	29·815	29·841	29·845	29·854	29·841	29·831	1010·20					Mean.
—·036	**—·056**	—·056	—·054	—·028	—·016	+·010	+·014	+·023	+·010							Variation.
1008·97	**1008·27**	1008·27	1008·34	1009·20	1009·67	1010·53	1010·67	1010·93	1010·53							Mean in millibars
—1·23	**—1·93**	—1·93	—1·86	—1·00	—·53	+·33	+·47	+·73	+·33							Variation in millibars

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·767	29·743	29·731	29·733	29·755	29·772	29·805	29·820	29·833	29·833	29·828	29·815	29·789	29·751
2	·748	·727	·722	·718	·732	·740	·772	·782	·800	·801	·804	·785	·767	·729
3	·753	·732	·719	·709	·722	·720	·757	·773	·791	·793	·801	·786	·765	·744
4	·763	·746	·735	·727	·740	·742	·765	·778	·801	·803	·803	·776	·761	·733
5	·778	·758	·752	·747	·752	·753	·785	·801	·821	·828	·829	·810	·810	·803
6	·799	·782	·782	·777	·787	·801	·818	·828	·842	·835	·827	·814	·801	·777
7	·802	·787	·794	·788	·794	·799	·827	·842	·863	·861	·856	·829	·805	·787
8	·785	·763	·757	·753	·766	·771	·801	·820	·846	·845	·847	·827	·809	·787
9	·814	·792	·776	·764	·782	·794	·824	·840	·866	·857	·863	·846	·836	·817
10	·826	·802	·797	·785	·796	·798	·821	·821	·840	·838	·848	·839	·842	·822
11	·859	·849	·843	·844	·844	·846	·869	·884	·912	·908	·904	·886	·866	·857
12	·809	·786	·788	·787	·825	·838	·879	·888	·900	·894	·871	·843	·822	·788
13	·730	·727	·725	·735	·747	·757	·783	·817	·817	·797	·793	·768	·744	·708
14	·715	·699	·691	·686	·695	·701	·728	·737	·761	·764	·759	·744	·731	·708
15	·723	·708	·698	·693	·715	·726	·762	·778	·798	·798	·801	·793	·777	·757
16	·745	·717	·707	·689	·710	·722	·747	·763	·782	·779	·789	·773	·749	·719
17	·765	·746	·745	·739	·737	·739	·757	·765	·779	·777	·773	·759	·745	·725
18	·719	·697	·703	·699	·706	·715	·732	·738	·755	·746	·737	·717	·697	·659
19	·671	·654	·650	·634	·656	·668	·687	·693	·720	·716	·713	·683	·655	·629
20	·615	·609	·606	·618	·650	·654	·674	·654	·670	·672	·675	·656	·636	·598
21	·642	·625	·613	·594	·619	·623	·648	·662	·678	·675	·669	·644	·618	·58
22	·578	·569	·566	·570	·586	·591	·620	·625	·632	·629	·637	·629	·621	·595
23	·601	·572	·575	·575	·597	·604	·640	·645	·668	·661	·657	·641	·624	·633
24	·617	·588	·584	·582	·582	·582	·600	·616	·628	·629	·624	·603	·594	·69
25	·575	·562	·564	·564	·579	·589	·612	·619	·640	·644	·644	·637	·621	·608
26	·649	·633	·640	·642	·659	·667	·701	·713	·741	·738	·743	·729	·719	·699
27	·703	·684	·678	·677	·697	·705	·734	·745	·773	·775	·779	·761	·745	·743
28	·749	·737	·729	·725	·732	·735	·759	·774	·785	·781	·789	·775	·762	·738
29	·753	·735	·725	·725	·739	·749	·776	·784	·803	·805	·805	·792	·783	·771
30	·807	·799	·793	·779	·791	·807	·831	·841	·853	·853	·853	·839	·827	·813
31	·839	·821	·809	·8·2	·812	·815	·834	·833	·843	·844	·847	·836	·822	·827
Mean .	29·732	29·714	29·710	29·706	29·719	29·727	29·753	29·764	29·782	29·780	29·780	29·763	29·747	29·725
Variation.	+·001	—·017	—·021	—·025	—·012	—·004	+·022	+·033	+·051	+·049	+·049	+·032	+·016	—·006
Mean in milibars.	1006·87	1006·23	1006·10	1006·00	1006·41	1006·64	1007·60	1007·93	1008·67	1008·50	1008·50	1007·90	1007·34	1006·57
Variation in milibars.	+0·04	—0·60	—0·73	—0·83	—0·42	—0·19	+·077	+1·10	+1·84	+1·67	+1·67	+1·07	+0 51	—0·26

JUNE.

1	29·830	29·816	29·808	29·802	29·814	29·818	29·844	29·851	29·866	29·864	29·864	29·856	29·842	29·816
2	·792	·770	·755	·746	·758	·758	·778	·783	·799	·800	·805	·792	·770	·755
3	·766	·742	·738	·730	·736	·742	·767	·777	·802	·807	·812	·803	·802	·784
4	·784	·766	·751	·742	·747	·745	·771	·780	·795	·793	·795	·783	·765	·753
5	·752	·731	·713	·702	·710	·719	·745	·749	·768	·770	·771	·755	·744	·717
6	·713	·699	·697	·693	·704	·714	·736	·744	·760	·760	·751	·746	·732	·733
7	·713	·694	·689	·684	·703	·708	·736	·746	·765	·762	·763	·751	·741	·717
8	·688	·674	·676	·676	·688	·691	·715	·723	·746	·741	·743	·728	·712	·704
9	·695	·676	·673	·664	·676	·673	·686	·694	·714	·714	·730	·715	·698	·677
10	·674	·659	·653	·648	·654	·658	·686	·700	·721	·720	·716	·698	·682	·676
11	·672	·648	·643	·636	·644	·648	·674	·688	·708	·706	·700	·695	·688	·668
12	·682	·656	·648	·644	·658	·665	·692	·696	·718	·727	·724	·707	·695	·682
13	·666	·649	·645	·636	·648	·655	·676	·685	·705	·702	·707	·690	·684	·665
14	·662	·647	·641	·631	·644	·651	·681	·684	·700	·697	·698	·690	·674	·680
15	·674	·653	·646	·638	·646	·652	·674	·682	·701	·701	·705	·694	·688	·668
16	·652	·633	·631	·623	·625	·623	·650	·662	·684	·686	·686	·674	·657	·654
17	·660	·639	·631	·626	·634	·636	·664	·672	·690	·684	·689	·690	·686	·663
18	·671	·656	·649	·646	·659	·665	·691	·702	·724	·727	·732	·722	·705	·705
19	·719	·695	·706	·686	·679	·685	·717	·729	·747	·739	·741	·736	·720	·701
20	·724	·709	·700	·688	·689	·692	·722	·733	·744	·740	·745	·724	·704	·700
21	·707	·693	·689	·686	·692	·705	·726	·734	·745	·750	·756	·741	·735	·714
22	·711	·688	·677	·668	·668	·670	·688	·700	·732	·736	·746	·746	·742	·740
23	·727	·705	·692	·677	·688	·692	·715	·725	·743	·752	·750	·736	·715	·694
24	·674	·649	·637	·623	·624	·630	·658	·671	·698	·700	·699	·690	·678	·682
25	·678	·669	·666	·640	·629	·650	·658	·663	·688	·690	·694	·683	·674	·656
26	·672	·648	·651	·650	·667	·673	·694	·704	·728	·725	·716	·708	·690	·686
27	·708	·684	·682	·688	·712	·731	·774	·780	·806	·800	·800	·788	·794	·770
28	·736	·713	·705	·692	·695	·696	·727	·729	·739	·739	·740	·727	·709	·702
29	·664	·650	·637	·634	·641	·640	·659	·661	·676	·675	·675	·662	·652	·633
30	·618	·606	·602	·600	·610	·612	·642	·656	·679	·680	·681	·673	·661	·663
Mean .	29·703	29·684	29·678	29·670	29·678	29·683	29·708	29·717	29·736	29·736	29·738	29·727	29·715	29·702
Variation.	+·003	—·016	—·022	—·030	—·022	—·017	+·008	+·017	+·036	+·036	+·038	+·027	+·015	+·002
Mean in milibars.	1005·90	1005·23	1004·97	1004·70	1004·97	1005·20	1006·07	1006·34	1007·00	1007·00	1007·07	1006·64	1006·27	1005·87
Variation in milibars.	+0·10	—0·57	—0·83	—1·10	—0·83	—0·60	+0·27	+0·54	+1·20	+1·20	+1·27	+0·84	+0·47	+0·07

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.		Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24	Inches.	Millibars.	Time.	Mag.	Time.	Mag.	
												H. M.		H. M		
29·726	29·713	29·709	29·699	29·728	29·736	29·771	29·778	29·784	29·767	29·766	1008·00	8 0	29·835	17 35	29·688	1
·715	·702	·698	·696	·702	·718	·746	·753	·760	·757	·745	07·27	8 10	·804	16 30	·690	2
·726	·706	·707	·714	·735	·747	·770	·773	·787	·779	·750	07·50	9 30	·802	16 10	·701	3
·715	·695	·693	·697	·719	·737	·767	·774	·788	·778	·751	07·53	9 15	·805	15 50	·687	4
·785	·761	·759	·757	·777	·789	·806	·808	·815	·804	·787	08·74	8 55	·830	2 30	·746	5
·761	·742	·745	·737	·758	·767	·791	·800	·816	·807	·791	08·83	8 0	·843	16 35	·731	6
·765	·739	·737	·731	·756	·764	·789	·794	·810	·795	·796	09·00	8 55	·872	17 0	·729	7
·774	·756	·766	·774	·797	·809	·835	·835	·846	·829	·800	09 10	9 10	·857	2 50	·747	8
·796	·778	·778	·782	·801	·812	·839	·840	·846	·833	·816	09·70	8 30	·868	1 30	·762	9
·810	·796	·798	·808	·842	·852	·870	·872	·884	·867	·828	10·07	22 0	·885	2 40	·786	10
·825	·801	·796	·782	·800	·804	·834	·836	·844	·823	**·847**	**10·74**	9 15	**·916**	17 35	·782	11
·772	·738	·728	·727	·747	·762	·793	·815	·814	·764	·807	09·34	7 35	·901	16 30	·723	12
·681	·656	·659	·669	·683	·705	·738	·748	·740	·724	·735	06·97	7 35	·827	16 0	·649	13
·688	·665	·666	·673	·697	·719	·738	·745	·747	·733	·716	06·30	9 5	·767	15 56	·657	14
·729	·691	·687	·685	·699	·713	·740	·751	·772	·757	·740	07 10	10 30	·809	16 30	·677	15
·704	·679	·680	·679	·694	·706	·730	·745	·765	·767	·731	06·83	10 10	·791	16 45	·671	16
·683	·650	·655	·656	·675	·695	·747	·763	·766	·739	·733	06·90	9 35	·787	16 10	·641	17
·629	·598	·605	·616	·626	·639	·657	·666	·671	·673	·683	05·20	8 20	·757	15 35	·591	18
·592	·548	·546	·558	·585	·612	·633	·617	·615	·609	·639	03·71	9 0	·726	16 0	·530	19
·582	·562	·554	·576	·584	·596	·634	·616	·638	·648	·624	03·23	6 50	·686	16 50	·518	20
·537	**·510**	·532	·561	·555	·536	·567	·577	·586	·571	·601	02·43	8 0	·680	16 15	**·482**	21
·562	·551	·587	·575	·549	·561	·597	·603	·630	·617	·595	02·17	7 10	·637	15 15	·543	22
·608	·585	·591	·585	·607	·597	·617	·621	·639	·634	·616	02·90	8 40	·671	2 50	·567	23
·550	·542	·535	·536	·550	·564	·585	·589	·596	·591	**·585**	**01·87**	9 0	·632	16 45	·528	24
·586	·572	·572	·575	·596	·612	·645	·653	·662	·652	·608	02·67	22 0	·668	2 0	·558	25
·681	·664	·672	·671	·688	·697	·720	·727	·733	·718	·693	05·50	8 45	·743	2 50	·631	26
·720	·700	·705	·702	·733	·744	·765	·773	·771	·753	·732	06·87	8 55	·781	2 30	·673	27
·722	·706	·709	·711	·722	·724	·746	·753	·764	·761	·745	07·27	9 0	·795	16 0	·701	28
·751	·736	·740	·744	·765	·773	·788	·791	·813	·806	·769	08·11	22 30	·815	2 50	·717	29
·795	·780	·787	·792	·808	·819	·834	·844	·855	·850	·819	09·81	22 0	·857	3 35	·773	30
·803	·789	·781	·787	·807	·813	·830	·841	·847	·841	·822	09·87	22 20	·847	16 50	·787	31
29·702	**29·681**	29·683	29·686	29·703	29·714	29·739	29·745	29·755	29·743	29·731	1006·83					Mean.
—·029	—·050	—·048	—·045	—·028	—·017	+·008	+·014	+·024	+·012							Variation.
1005·87	**1005·13**	1005·20	1005·30	1005·90	1006·23	1007·11	1007·27	1007·67	1007·20							Mean in millibars.
—0·96	**—1·70**	—1·63	—1·53	—0·93	—·060	+0·28	+0·44	+0·84	+0·37							Variation in millibars.

JUNE.

29·794	29·777	29·774	29·772	29·790	29·796	29·810	29·806	29·812	29·803	**29·818**	**1009·77**	8 40	**29·868**	16 55	29·768	1
·748	·742	·746	·750	·764	·774	·792	·788	·790	·777	·772	08·17	9 35	·810	15 15	·740	2
·766	·750	·744	·751	·774	·781	·800	·807	·811	·799	·775	08·27	10 20	·814	4 0	·728	3
·743	·719	·707	·705	·725	·734	·752	·755	·766	·760	·756	07·70	9 0	·797	16 55	·703	4
·708	·692	·684	·677	·696	·704	·723	·732	·735	·726	·726	06·60	8 45	·773	17 45	·675	5
·704	·687	·686	·695	·702	·709	·736	·738	·739	·729	·721	06·43	8 45	·763	16 5	·681	6
·697	·685	·684	·678	·702	·706	·717	·715	·713	·696	·715	06·27	8 50	·766	17 0	·676	7
·690	·678	·669	·664	·678	·690	·706	·709	·717	·698	·700	05·80	8 45	·748	16 50	·656	8
·668	·647	·647	·644	·666	·671	·684	·687	·694	·680	·682	05·17	10 0	·732	16 0	·638	9
·661	·642	·647	·643	·658	·666	·686	·686	·688	·674	·675	04·87	9 0	·724	17 30	·636	10
·662	·643	·648	·643	·660	·673	·695	·698	·705	·694	·672	04·77	9 0	·710	4 0	·634	11
·668	·641	·638	·644	·665	·670	·687	·682	·686	·676	·677	04·94	9 30	·732	16 15	·632	12
·654	·642	·642	·642	·656	·666	·680	·674	·685	·671	·668	04·67	9 15	·714	3 55	·628	13
·669	·650	·651	·650	·664	·673	·684	·687	·687	·674	·670	04·70	8 40	·704	3 45	·628	14
·656	·634	·629	·627	·649	·654	·674	·672	·678	·663	·665	04·57	9 10	·708	17 5	·620	15
·641	·628	·628	·630	·649	·666	·681	·683	·690	·682	·655	04·27	9 20	·704	4 35	·622	16
·642	·632	·632	·631	·656	·660	·679	·686	·698	·682	·661	04·43	22 0	·700	2 45	·620	17
·689	·663	·655	·657	·675	·690	·707	·716	·733	·728	·690	05·40	9 7	·741	2 46	·637	18
·686	·672	·667	·675	·700	·710	·732	·742	·749	·734	·711	06·13	21 25	·751	16 40	·647	19
·684	·670	·670	·670	·683	·693	·706	·706	·720	·713	·705	05·97	10 0	·748	15 45	·662	20
·699	·680	·685	·686	·695	·701	·715	·720	·731	·721	·713	06·20	9 50	·758	16 0	·674	21
·716	·700	·692	·689	·705	·701	·754	·752	·750	·735	·713	06·20	20 55	·760	4 0	·658	22
·674	·653	·650	·648	·668	·673	·692	·694	·704	·687	·698	05·67	9 15	·754	16 20	·642	23
·659	·651	·654	·640	·658	·662	·688	·692	·703	·684	·667	04·64	21 45	·708	4 40	·618	24
·644	·622	·625	·628	·657	·664	·688	·692	·699	·686	·665	04·57	21 45	·706	16 5	·618	25
·670	·659	·650	·659	·688	·694	·725	·729	·728	·722	·689	05·41	8 55	·730	1 30	·646	26
·738	·717	·715	·709	·727	·728	·751	·758	·774	·759	·746	07·30	8 22	·808	2 0	·678	27
·684	·667	·672	·665	·672	·669	·686	·690	·701	·686	·702	05·87	8 45	·742	16 0	·662	28
·627	·618	·620	·616	·632	·638	·653	·652	·656	·640	**·646**	**03·90**	8 32	·678	16 0	·614	29
·656	·638	·629	·628	·653	·663	·674	·674	·687	·672	·648	03·97	9 30	·690	2 20	·598	30
29·687	29·670	29·668	**29·667**	29·686	29·693	29·712	29·714	29·721	29·708	29·700	1005·80					Mean.
—·013	—·030	—·032	**—·033**	—·014	—·007	+·012	+·014	+·021	+·008							Variation.
1005·34	1004·70	1004·67	**1004·64**	1005·30	1005·50	1006·17	1006·23	1006·43	1006·07							Mean in millibars.
—0·46	—1·10	—1·13	**—1·16**	—0·50	—0·30	+0·37	+0·43	+0·63	+0·27							Variation in millibars.

BAROMETRIC PRESSURE, 1932.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN INCHES OF MERCURY AT 32°F.)

Date.	Hours. 0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·668	29·651	29·649	29·644	29·654	29·652	29·671	29·671	29·679	29·675	29·678	29·670	29·656	29·637
2	·630	·617	·611	·605	·616	·616	·625	·633	·643	·637	·637	·621	·605	·581
3	·594	·572	·572	·566	·579	·581	·609	·621	·644	·642	·649	·634	·621	·598
4	·618	·601	·587	·574	·588	·585	·604	·615	·624	·623	·626	·618	·606	·580
5	·568	·547	·543	·524	·531	·535	·559	·571	·595	·585	·591	·574	·557	·528
6	·540	·520	·510	·503	·510	·522	·534	·541	·564	·566	·565	·559	·541	·534
7	·523	·510	·504	·495	·512	·512	·538	·548	·571	·568	·572	·560	·558	·543
8	·535	·518	·519	·511	·530	·537	·562	·570	·587	·585	·595	·691	·691	·571
9	·573	·562	·555	·552	·551	·551	·563	·569	·593	·595	·595	·584	·578	·565
10	·551	·534	·522	·515	·522	·523	·551	·545	·568	·573	·573	·560	·550	·545
11	·571	·567	·560	·560	·569	·570	·592	·602	·620	·620	·625	·616	·614	·604
12	·615	·596	·581	·569	·580	·580	·612	·622	·637	·637	·637	·625	·613	·602
13	·623	·611	·596	·584	·594	·604	·628	·636	·654	·655	·659	·646	·632	·616
14	·611	·588	·582	·569	·574	·581	·595	·594	·612	·611	·606	·596	·580	·569
15	·615	·594	·571	·560	·569	·578	·591	·608	·633	·634	·633	·621	·615	·604
16	·658	·643	·638	·636	·645	·656	·688	·700	·726	·733	·745	·737	·734	·734
17	·763	·755	·756	·742	·745	·744	·763	·772	·793	·805	**·807**	·801	·783	·765
18	·760	·736	·719	·697	·699	·701	·730	·738	·754	·755	·752	·735	·712	·696
19	·679	·661	·651	·641	·645	·645	·663	·665	·681	·680	·684	·675	·665	·656
20	·640	·620	·616	·612	·616	·614	·630	·634	·652	·648	·652	·644	·636	·628
21	·634	·621	·612	·598	·591	·588	·606	·608	·628	·624	·628	·622	·611	·596
22	·584	·559	·550	·538	·541	·550	·571	·579	·596	·594	·599	·591	·579	·572
23	·566	·540	·526	·521	·531	·535	·555	·568	·592	·590	·588	·582	·578	·565
24	·568	·552	·544	·532	·540	·539	·561	·567	·585	·583	·579	·567	·556	·543
25	·495	·472	·453	·447	·458	·457	·477	·483	·514	·514	·503	·493	·486	·465
26	·518	·494	·488	·481	·503	·505	·536	·546	·574	·584	·598	·593	·589	·584
27	·642	·624	·619	·611	·620	·622	·648	·656	·677	·679	·691	·689	·684	·671
28	·687	·665	·648	·647	·646	·650	·673	·685	·712	·713	·719	·711	·704	·694
29	·690	·674	·660	·655	·662	·661	·674	·682	·698	·699	·700	·690	·674	·662
30	·638	·611	·617	·603	·610	·618	·642	·649	·669	·669	·671	·661	·658	·652
31	·641	·623	·611	·595	·601	·607	·622	·627	·659	·669	·677	·664	·656	·645
Mean .	29·613	29·595	29·586	29·577	29·585	29·588	29·609	29·616	29·637	29·637	**29·640**	29·630	29·620	29·607
Variation	+·006	—·012	—·021	—·030	—·022	—·019	+·002	+·009	+·030	+·030	**+·033**	+·023	+·013	+·000
Mean in milibars.	1002·80	1002·17	1001·90	1001·54	1001·87	1001·97	1002·70	1002·90	1003·64	1003·64	**1003·70**	1003·40	1003·00	1002·64
Variation in milibars.	+0·16	—0·47	—0·74	—1·10	—0·77	—0·67	+0·06	+0·26	+1·00	+1·00	**+1·06**	+0·76	+0·36	0·00

AUGUST.

1	29·671	29·654	29·642	29·628	29·636	29·634	29·664	29·662	29·674	29·676	29·674	29·667	29·655	29·636
2	·648	·620	·609	·598	·603	·606	·625	·629	·643	·639	·642	·636	·628	·612
3	·645	·623	·614	·603	·606	·605	·629	·639	·664	·672	·688	·683	·673	·663
4	·680	·664	·648	·638	·640	·641	·659	·667	·690	·692	·699	·688	·682	·668
5	·696	·681	·673	·668	·674	·675	·695	·704	·724	·723	·726	·712	·707	·692
6	·704	·682	·672	·666	·675	·679	·705	·705	·725	·727	·723	·711	·708	·693
7	·668	·654	·647	·639	·641	·640	·661	·669	·686	·680	·683	·670	·662	·658
8	·668	·644	·640	·632	·634	·638	·658	·662	·679	·679	·691	·684	·672	·646
9	·626	·611	·600	·592	·598	·602	·629	·639	·659	·659	·664	·655	·647	·629
10	·643	·627	·626	·617	·625	·632	·659	·674	·701	·706	·718	·713	·702	·696
11	·723	·710	·711	·711	·719	·729	·758	·769	·788	·789	·798	·795	·790	·777
12	·792	·775	·767	·766	·768	·778	·798	·800	·816	·822	·818	·806	·794	·780
13	·764	·749	·734	·728	·733	·737	·759	·778	·796	·800	·790	·774	·760	·738
14	·747	·726	·706	·704	·718	·726	·748	·761	·785	·797	·795	·779	·768	·754
15	·764	·750	·738	·731	·737	·743	·763	·781	·796	·796	·806	·802	·787	·777
16	·794	·784	·769	·763	·781	·782	·803	·818	·842	·841	·844	·834	·822	·796
17	·783	·765	·757	·751	·763	·764	·790	·803	·825	·824	·831	·810	·794	·781
18	·786	·762	·759	·743	·748	·749	·773	·784	·810	·808	·813	·799	·793	·771
19	·776	·754	·744	·739	·741	·748	·768	·772	·786	·786	·788	·781	·772	·755
20	·759	·745	·743	·738	·752	·756	·785	·798	·813	·807	·807	·793	·784	·759
21	·765	·756	·755	·766	·767	·773	·782	·792	·808	·806	·815	·792	·782	·760
22	·762	·743	·744	·740	·747	·754	·777	·774	·779	·780	·792	·778	·764	·741
23	·732	·706	·708	·704	·709	·715	·737	·744	·755	·754	·746	·730	·717	·695
24	·761	·738	·720	·715	·736	·741	·769	·782	·806	·803	·800	·784	·766	·732
25	·751	·746	·737	·735	·743	·747	·771	·790	·813	·814	·807	·794	·778	·753
26	·773	·761	·756	·746	·756	·758	·787	·799	·830	·822	·821	·810	·796	·770
27	·807	·799	·780	·777	·792	·792	·811	·842	·857	**·859**	·854	·834	·804	·780
28	·774	·750	·749	·748	·760	·761	·793	·804	·824	·815	·801	·770	·748	·715
29	·741	·723	·714	·709	·711	·711	·725	·743	·778	·765	·757	·743	·717	·693
30	·749	·725	·701	·684	·691	·693	·724	·738	·760	·763	·760	·743	·720	·684
31	·713	·684	·679	·679	·691	·690	·708	·729	·752	·753	·754	·740	·710	·672
Mean .	29·731	29·713	29·705	29·699	29·706	29·710	29·733	29·744	29·763	29·763	**29·765**	29·752	29·739	29·719
Variation.	+·005	—·013	—·021	—·027	—·020	—·016	+·007	+·018	+·037	+·037	**+·039**	+·026	+·013	—·007
Mean in milibars.	1006·83	1006 20	1005·97	1005·70	1006·00	1006·10	1006·90	1007·23	1007·90	1007·90	**1007·97**	1007·57	1007·10	1006·40
Variation in milibars.	+0·23	—0 40	—0·63	—0·90	—0·60	—0·50	+0·30	+0·63	+1·30	+1·30	**+1·37**	+0·97	+0·50	—0·20

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.		Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24	Inches.	Milibars.	Time.	Mag.	Time.	Mag.	
												H. M.		H. M.		
29·629	29·612	29·612	29·614	29·624	29·634	29·657	29· 57	29·664	29·648	29·650	1004·10	8 52	29 683	17 00	29·603	1
·564	·539	·541	·534	·555	·573	·592	·597	·611	·605	·599	02·31	8 45	·647	17 10	·529	2
·580	·549	·542	·542	·558	·569	·592	·604	·631	·621	·595	02·17	10 00	·653	16 40	·539	3
·557	·532	·541	·529	·539	·557	·582	·582	·591	·579	·585	01·87	9 10	·637	17 45	·525	4
·507	·478	·475	·477	·504	·505	·526	·534	·549	·548	·538	00·27	8 25	·595	16 40	·471	5
·523	·503	·500	·494	·512	·521	·542	·541	·552	·532	·530	00·00	9 30	·568	16 00	·492	6
·534	·510	·501	·494	·518	·528	·550	·544	·545	·540	·532	00·07	9 02	·574	3 37	·492	7
·553	·531	·522	·521	·541	·551	·574	·575	·585	·581	·556	00·90	9 00	·597	3 20	·507	8
·560	·545	·533	·531	·543	·547	·565	·560	·585	·561	·562	01·07	8 00	·597	16 46	·527	9
·522	·501	·491	·505	·530	·542	·565	·573	·594	·584	·543	00·50	22 55	·601	16 30	·487	10
·597	·575	·571	·566	·586	·601	·618	·618	·628	·620	·595	02·17	22 00	·631	3 36	·557	11
·591	·583	·584	·583	·602	·616	·641	·648	·657	·648	·611	02·73	22 30	·665	3 30	·567	12
·606	·586	·586	·589	·613	·625	·636	·637	·651	·641	·621	03·13	9 35	·662	3 17	·578	13
·556	·540	·538	·547	·571	·594	·619	·626	·634	·630	·588	01·97	23 16	·636	16 00	·536	14
·602	·590	·589	·595	·626	·634	·656	·656	·670	·660	·613	02·80	22 20	·674	3 10	·556	15
·710	·702	·700	·707	·733	·747	·767	·771	·772	·769	·710	06·10	21 35	·774	2 35	·634	16
·749	·737	·737	·737	·745	·753	·773	·775	·783	·771	**·765**	**07·97**	10 00	**·808**	16 15	·731	17
·675	·656	·660	·662	·675	·676	·691	·696	·700	·687	·707	06·04	9 20	·761	15 50	·649	18
·642	·620	·617	·613	·621	·633	·655	·663	·667	·656	·653	04·20	9 50	·691	17 35	·603	19
·609	·590	·584	·582	·602	·609	·630	·631	·642	·637	·623	03·20	8 45	·654	17 00	·574	20
·576	·564	·552	·554	·574	·576	·595	·592	·607	·595	·598	02·27	0 02	·640	16 25	·546	21
·560	·543	·545	·544	·573	·583	·597	·601	·599	·585	·572	01·47	21 25	·611	4 00	·533	22
·556	·542	·538	·538	·554	·567	·584	·581	·590	·578	·561	01·03	9 17	·594	3 00	·518	23
·529	·518	·514	·512	·524	·529	·539	·534	·529	·515	·544	00·53	8 35	·586	16 00	·508	24
·458	**·446**	·455	·467	·497	·513	·527	·528	·534	·526	**·486**	**998·50**	22 00	·535	3 17	**·441**	25
·568	·557	·568	·574	·600	·610	·634	·640	·665	·653	·569	1001·31	22 15	·672	3 00	·478	26
·666	·656	·648	·648	·664	·674	·698	·702	·712	·696	·662	04·47	22 18	·716	3 30	·608	27
·680	·667	·668	·668	·685	·690	·706	·701	·710	·701	·685	05·27	9 15	·720	3 05	·642	28
·650	·640	·636	·634	·648	·653	·667	·667	·673	·660	·667	04·64	9 17	·703	17 25	·632	29
·639	·630	·637	·637	·649	·659	·667	·671	·673	·657	·645	03·87	22 15	·677	3 17	·599	30
·642	·638	·643	·645	·664	·667	·683	·693	·703	·685	·648	03·97	22 00	·705	3 55	·591	31
29·593	29·577	**29·575**	29·576	29·595	29·604	29·623	29·626	29·635	29·625	29·607	1002·64					Mean.
—·014	—·030	—·032	—·031	—·012	—·003	+·016	+·019	+0·28	+·018							Variation.
1002·10	1001·54	**1001·47**	1001·50	1002·17	1002·53	1003·20	1003·30	1003·57	1003·27							Mean in millibars.
—0·54	—1·10	—1·17	—1·14	—0·47	—0·11	+0·56	+0·66	+·093	+0·63							Variation in millibars.

AUGUST.

29·621	29·605	29·603	29·603	29·614	29·628	29·648	29·654	29·665	29·658	29·645	1003·87	9 15	29·680	16 10	29·596	1
·602	·584	**·580**	·581	·596	·611	·638	·645	·652	·646	**·629**	**04·10**	22 45	·656	16 32	**·576**	2
·652	·634	·631	·635	·649	·652	·676	·685	·693	·683	·650	04·10	22 6	·701	3 40	·601	3
·653	·641	·637	·637	·651	·662	·684	·696	·710	·701	·668	04·67	22 14	·713	17 10	·628	4
·676	·659	·658	·658	·678	·686	·708	·720	·729	·715	·693	05·50	22 12	·734	16 40	·652	5
·673	·658	·656	·651	·667	·669	·689	·689	·694	·682	·688	05·37	9 5	·735	17 10	·649	6
·642	·625	·627	·631	·651	·660	·679	·680	·689	·673	·659	04·41	22 0	·698	15 32	·620	7
·627	·611	·605	·601	·604	·614	·636	·638	·646	·634	·643	03·80	10 55	·694	16 55	·596	8
·620	·608	·606	·609	·628	·638	·657	·659	·661	·651	·631	03·43	22 0	·666	4 0	·586	9
·692	·680	·682	·685	·705	·708	·729	·732	·736	·725	·684	05·23	22 35	·738	3 56	·614	10
·770	·759	·763	·765	·779	·789	·801	·812	·821	·813	·768	08·07	22 4	·823	2 20	·707	11
·770	·760	·768	·772	·793	·796	·805	·803	·796	·782	·789	08·81	9 50	·824	4 10	·754	12
·728	·709	·702	·705	·721	·730	·752	·757	·766	·754	·749	07·41	9 12	·804	16 47	·694	13
·741	·727	·729	·733	·752	·758	·779	·784	·795	·775	·754	07·63	22 32	·811	4 8	·702	14
·761	·747	·750	·751	·772	·783	**·796**	·801	·809	·798	·772	08·17	10 5	·812	4 12	·728	15
·775	·758	·744	·752	·772	·783	·799	·799	·804	·794	**·794**	**08·93**	8 45	·846	16 30	·739	16
·769	·754	·749	·749	·770	·777	·810	·811	·814	·799	·785	08·67	10 10	·837	16 54	·741	17
·754	·740	·739	·740	·760	·767	·787	·792	·784	·780	·773	08·20	8 40	·814	16 14	·728	18
·741	·721	·723	·729	·753	·756	·763	·773	·779	·767	·759	07·81	8 38	·792	16 15	·712	19
·742	·731	·725	·733	·751	·758	·786	·792	·785	·773	·767	08·04	9 5	·817	16 52	·715	20
·748	·743	·750	·744	·758	·761	·785	·787	·791	·772	·773	08·20	10 0	·829	16 48	·741	21
·727	·700	·710	·719	·733	·737	·760	·762	·754	·742	·751	07·53	10 4	·798	15 47	·692	22
·680	·658	·680	·683	·709	·723	·750	·757	·782	·771	·723	06·50	22 15	·788	15 45	·652	23
·718	·699	·706	·709	·728	·739	·767	·783	·775	·761	·752	07·57	8 22	·810	16 0	·694	24
·733	·713	·722	·722	·740	·751	·771	·782	·795	·775	·762	07·87	9 0	·818	16 35	·710	25
·756	·748	·746	·748	·777	·790	·810	·818	·825	**·816**	**·784**	08·63	9 14	·832	16 56	·738	26
·743	·724	·727	·732	·748	·765	·786	·795	·800	·782	·791	08·83	9 4	**·866**	16 15	·712	27
·693	·674	·671	·673	·702	·723	·747	·751	·762	·755	·748	07·37	8 40	·825	17 0	·656	28
·669	·656	·680	·695	·712	·720	·749	·763	·782	·765	·726	06·60	22 35	·783	15 34	·647	29
·667	·651	·659	·677	·703	·723	·744	·733	·739	·729	·715	06·27	8 40	·765	15 54	·645	30
·651	·631	·653	·655	·685	·699	·719	·711	·703	·678	·697	05·64	9 50	·769	15 35	·617	31
29·703	**29·687**	29·690	29·693	29·712	29·721	29·742	29·747	29·753	29·740	29·726	1006·60					Mean.
—·023	—·039	—·036	—·033	—·014	—·005	+·016	+·021	+·027	+·014							Variation.
1005·90	**1005·34**	1005·40	1005·50	1006·17	1006·43	1007·17	1007·34	1007·60	1007·19							Mean in milibars
—0·70	—1·26	—1·20	—1·10	—0·43	—0·17	+0·57	+0·74	+1·00	+0·50							Variation in milibars.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·678	29·676	29·671	29·672	29·683	29·687	29·716	29·720	29·734	29·727	29·712	29·686	29·661	29·623
2	·616	·598	·582	·580	·591	·606	·606	·622	·650	·648	·644	·619	·594	·560
3	·530	·525	·514	·512	·513	·520	·548	·562	·584	·583	·582	·566	·543	·516
4	·572	·552	·560	·550	·552	·552	·561	·576	·616	·635	·642	·632	·606	·588
5	·617	·608	·607	·598	·619	·624	·655	·670	·689	·690	·689	·670	·648	·636
6	·622	·601	·594	·589	·598	·605	·618	·626	·655	·655	·657	·652	·641	·622
7	·667	·652	·651	·646	·655	·654	·674	·682	·710	·715	·722	·707	·690	·671
8	·719	·702	·698	·692	·703	·719	·733	·736	·754	·758	·758	·750	·733	·719
9	·725	·706	·696	·686	·698	·706	·734	·752	·784	·786	·785	·775	·761	·735
10	·765	·743	·736	·733	·740	·747	·763	·784	·811	·815	·817	·808	·790	·770
11	·792	·767	·752	·752	·757	·763	·774	·786	·811	·810	·812	·798	·782	·758
12	·742	·729	·721	·714	·722	·725	·743	·755	·781	·784	·786	·775	·750	·735
13	·741	·726	·720	·716	·725	·732	·757	·769	·795	·800	·806	·788	·770	·744
14	·762	·749	·744	·742	·748	·753	·778	·788	·812	·817	·822	·804	·777	·749
15	·772	·750	·729	·715	·723	·732	·752	·765	·788	·795	·792	·782	·763	·740
16	·750	·733	·735	·733	·740	·744	·777	·796	·814	·809	·813	·800	·782	·757
17	·766	·753	·740	·730	·738	·734	·748	·759	·787	·787	·787	·766	·741	·710
18	·707	·686	·676	·668	·680	·683	·711	·722	·748	·752	·746	·735	·717	·703
19	·752	·740	·739	·733	·750	·760	·783	·801	·831	·841	·841	·820	·808	·793
20	·801	·785	·784	·784	·795	·803	·826	·837	·858	·855	·850	·828	·806	·798
21	·786	·763	·754	·742	·758	·766	·780	·792	·813	·811	·806	·784	·758	·724
22	·723	·703	·697	·689	·697	·705	·728	·743	·767	·762	·757	·743	·721	·696
23	·710	·695	·689	·688	·703	·710	·728	·742	·773	·771	·772	·759	·739	·715
24	·738	·731	·727	·717	·727	·729	·748	·763	·784	·784	·783	·768	·748	·720
25	·771	·763	·754	·749	·769	·772	·804	·820	·842	·846	·851	·842	·820	·803
26	·865	·851	·842	·834	·843	·859	·884	·899	**·918**	·917	·914	·893	·863	·831
27	·829	·809	·796	·785	·787	·798	·835	·851	·871	·869	·865	·846	·817	·777
28	·783	·767	·761	·758	·769	·775	·797	·813	·834	·833	·830	·806	·776	·749
29	·764	·735	·737	·737	·748	·763	·799	·806	·829	·834	·831	·807	·783	·753
30	·859	·832	·830	·815	·819	·838	·870	·887	·913	·914	·913	·887	·858	·838
Mean .	29·731	29·714	29·708	29·702	29·712	29·719	29·741	29·754	29·779	**29·780**	29·779	29·763	29·742	29·718
Variation.	—·002	—·019	—·025	—·031	—·021	—·014	+·008	+·021	+·046	**+·047**	+·046	+·030	+·009	—·015
Mean in millibars.	1006·83	1006·23	1006·07	1005·87	1006·17	1006·41	1007·13	1007·63	1008·41	**1008·50**	1008·41	1007·90	1007·17	1006·36
Variation in millibar.	—0·07	—0·67	—0·83	—1·03	—0·73	—0·49	+0·23	+0·73	+1·51	**+1·60**	+1·51	+1·00	+0·27	—0·54

OCTOBER.

1	29·849	29·826	29·826	29·814	29·823	29·830	29·863	29·878	29·894	29·894	29·894	29·874	29·846	29·816
2	·806	·793	·788	·780	·788	·788	·819	·830	·856	·851	·853	·836	·809	·772
3	·797	·771	·761	·759	·774	·779	·809	·823	·840	·848	·841	·816	·799	·771
4	·792	·772	·769	·763	·773	·781	·807	·825	·853	·855	·851	·825	·794	·757
5	·783	·759	·767	·771	·786	·789	·821	·829	·854	·851	·844	·815	·786	·755
6	·779	·760	·763	·760	·770	·777	·803	·811	·833	·831	·833	·819	·792	·767
7	·794	·777	·776	·770	·780	·793	·832	·846	·864	·864	·858	·832	·801	·774
8	·811	·783	·783	·783	·789	·808	·845	·853	·876	·879	·879	·867	·839	·814
9	·800	·776	·776	·764	·781	·792	·824	·836	·854	·858	·854	·822	·802	·763
10	·805	·784	·784	·790	·792	·794	·828	·839	·861	·864	·870	·850	·821	·804
11	·821	·802	·796	·795	·785	·796	·821	·836	·855	·856	·851	·829	·797	·773
12	·813	·804	·806	·806	·819	·820	·845	·849	·869	·865	·856	·826	·788	·773
13	·808	·780	·781	·775	·786	·802	·828	·840	·864	·864	·854	·819	·786	·762
14	·762	·740	·735	·732	·744	·748	·772	·782	·794	·802	·800	·773	·738	·713
15	·745	·727	·711	·700	·697	·702	·728	·743	·770	·770	·765	·742	·717	·685
16	·724	·699	·702	·709	·724	·724	·745	·762	·796	·804	·799	·782	·757	·745
17	·793	·775	·780	·775	·784	·801	·832	·843	·865	·860	·852	·830	·805	·773
18	·829	·821	·821	·792	·797	·811	·841	·853	·872	·871	·859	·829	·799	·776
19	·827	·810	·801	·792	·791	·793	·830	·843	·869	·864	·847	·811	·775	·742
20	·777	·779	·775	·768	·771	·777	·777	·782	·799	·793	·780	·745	·730	·708
21	·758	·736	·736	·734	·744	·754	·774	·792	·819	·814	·813	·794	·785	·759
22	·843	·822	·814	·810	·824	·837	·864	·869	·886	·888	·884	·858	·842	·807
23	·861	·832	·828	·823	·832	·834	·888	·871	·891	·888	·879	·847	·821	·795
24	·819	·806	·800	·793	·802	·807	·840	·846	·874	·876	·868	·838	·810	·784
25	·817	·803	·811	·803	·816	·835	·852	·854	·875	·878	·866	·839	·809	·783
26	·795	·783	·778	·774	·784	·790	·826	·837	·851	·851	·834	·804	·782	·759
27	·818	·817	·820	·825	·828	·821	·846	·872	·898	**·901**	·896	·857	·831	·804
28	·818	·797	·802	·789	·791	·789	·826	·843	·864	·864	·854	·834	·811	·796
29	·816	·803	·810	·810	·806	·819	·851	·865	·887	·884	·872	·845	·816	·786
30	·816	·804	·799	·794	·802	·809	·833	·847	·869	·870	·862	·828	·794	·767
31	·780	·772	·774	·769	·774	·778	·792	·803	·822	·834	·819	·800	·768	·741
Mean .	29·802	29·784	29·783	29·778	29·786	29·793	29·820	29·832	29·854	**29·855**	29·848	29·822	29·795	29·769
Variation.	+·003	—·015	—·016	—·021	—·013	—·006	+·021	+·033	+·055	**+·056**	+·049	+·023	—·004	—·030
Mean in millibars.	1007·17	1008·63	1008·60	1008·37	1008·70	1008·90	1009·80	1010·27	1010·93	**1010·97**	1010·77	1009·87	1008·97	1008·11
Variation in millibars.	—1·91	—0·45	—0·48	—0·71	—0·38	—0·18	+0·72	+1·19	+1·85	**+1·89**	+1·69	+0·79	—0·11	—0·97

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.		Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24	Inches.	Millibars.	Time.	Mag.	Time.	Mag.	
												H. M.		H. M.		
29·590	29·561	29·565	29·573	29·604	29·620	29·635	29·647	29·646	29·637	29·655	1004·27	8 26	29·737	16 4	29·553	1
·536	·498	·523	·523	·526	·526	·556	·583	·584	·554	·580	01·70	9 10	·664	15 40	·472	2
·502	**·486**	·488	·497	·550	·573	·596	·604	·598	·582	**·545**	**00·57**	21 40	·612	16 20	·474	3
·566	·563	·568	·573	·588	·597	·627	·641	·645	·632	·591	02·03	9 35	·650	4 45	·542	4
·622	·606	·610	·609	·632	·639	·659	·659	·653	·638	·639	03·71	9 0	·693	3 12	·595	5
·612	·609	·608	·609	·629	·635	·655	·663	·675	·670	·629	03·41	22 15	·677	3 15	·585	6
·660	·649	·654	·658	·684	·696	·720	·732	·737	·731	·684	05·23	21 35	·742	3 30	·644	7
·698	·682	·680	·687	·708	·721	·742	·742	·753	·735	·722	06·47	9 45	·766	16 15	·674	8
·723	·714	·719	·726	·748	·760	·782	·788	·794	·778	·744	07·23	21 25	·800	3 30	·684	9
·759	·750	·756	·765	·786	·795	·820	·823	·821	·809	·779	08·41	21 35	·827	3 20	·729	10
·743	·721	·721	·724	·745	·750	·764	·771	·769	·757	·766	08·00	8 42	·814	16 5	·716	11
·715	·699	·701	·700	·720	·730	·747	·755	·752	·746	·739	07·11	10 0	·788	16 5	·696	12
·726	·711	·711	·714	·746	·760	·781	·783	·787	·785	·754	07·63	10 0	·810	16 0	·710	13
·738	·728	·738	·735	·762	·778	·790	·788	·787	·776	·769	08·11	9 40	·824	15 50	·724	14
·717	·704	·709	·716	·755	·767	·792	·792	·789	·776	·755	07·67	9 15	·798	16 0	·702	15
·736	·719	·716	·724	·744	·757	·780	·783	·778	·772	·763	07·90	9 45	·822	16 0	·706	16
·698	·682	·684	·686	·704	·707	·730	·724	·724	·714	·733	06·90	8 40	·792	16 0	·676	17
·696	·683	·690	·693	·708	·718	·744	·752	·759	·752	·714	06·23	22 15	·762	3 10	·664	18
·792	·787	·784	·784	·798	·805	·824	·832	·831	·812	·793	08·90	9 15	·844	3 25	·730	19
·761	·751	·758	·758	·777	·788	·806	·809	·803	·789	·801	09·13	8 45	·860	16 10	·746	20
·712	·702	·716	·725	·740	·740	·758	·756	·754	·738	·757	07·74	8 35	·816	16 0	·698	21
·673	·662	·681	·686	·703	·709	·725	·722	·719	·713	·713	06·20	8 20	·767	16 0	·659	22
·712	·699	·695	·694	·711	·721	·739	·739	·743	·737	·724	06·53	8 45	·777	3 0	·683	23
·710	·704	·702	·711	·734	·746	·767	·775	·770	·770	·744	07·23	21 50	·788	16 0	·700	24
·795	·786	·795	·802	·835	·852	·877	·887	·884	·877	·817	09·74	21 45	·891	2 15	·745	25
·803	·791	·787	·785	·811	·837	·851	·855	·859	·843	·851	10·83	9 0	·925	16 35	·783	26
·755	·743	·765	·784	·810	·808	·825	·821	·824	·802	·812	09·57	8 32	·875	16 5	·745	27
·719	·711	·745	·756	·785	·792	·793	·788	·795	·781	·780	08·50	9 0	·837	15 40	·701	28
·731	·719	·751	·791	·838	·849	·854	·846	·861	·863	·793	08·90	23 50	·871	15 14	·717	29
·811	·803	·812	·819	·843	·861	·891	·885	·885	·867	**·856**	**11·00**	8 35	·917	15 20	·801	30
29·701	**29·688**	29·694	29·700	29·724	29·735	29·754	29·758	29·760	29·748	29·733	1006·90					Mean.
—·032	**—·045**	—·039	—·033	—·009	+·002	+·021	+·025	+·027	+·015							Variation.
1005·83	**1005·37**	1005·53	1005·80	1006·53	1006·97	1007·63	1007·77	1007 80	1007·37							Mean in millibars.
—1·07	**— 1·53**	—1·37	—1·10	—·37	+0·07	+0·73	+0·87	+0·90	+0·47							Variation in millibars.

OCTOBER.

29·788	29·778	29·784	29·796	29·820	29·832	29·858	29·850	29·843	29·822	29·837	1010·44	8 50	29·900	15 10	29·776	1
·751	·748	·774	·782	·798	·798	·818	·829	·831	·814	·805	09·27	8 45	·862	15 10	·742	2
·751	·743	·740	·745	·789	·797	·810	·811	·812	·801	·791	08·83	9 5	·853	16 15	·731	3
·741	·735	·743	·751	·769	·775	·802	·811	·810	·795	·790	(8·80	9 4	·863	15 47	·727	4
·733	·732	·760	·783	·782	·784	708	·794	·786	·783	·789	08 80	9 10	·856	14 0	·727	5
·740	·746	·767	·770	·787	·795	·820	·821	·819	·809	·790	08·80	8 40	·838	14 40	·736	6
·756	·742	·762	·774	·793	·801	·821	·831	·834	·815	·804	(9·23	10 0	·868	15 17	·734	7
·783	·773	·785	·789	·828	·826	·843	·830	·819	·798	·820	09·89	9 45	·883	15 40	·769	8
·742	·720	·782	·793	·790	·796	·830	·830	·823	·811	·801	09·13	9 35	·870	15 45	·716	9
·787	·784	·785	·798	·827	·842	·860	·861	·852	·845	·822	09·87	9 32	·882	16 2	·778	10
·753	·746	·755	·768	·791	·797	·816	·827	·825	·817	·805	(9·27	9 40	·861	15 54	·741	11
·751	·743	·748	·781	·787	·801	·825	·834	·831	·821	·811	(9·53	9 0	·881	15 50	·741	12
·742	·720	·722	·728	·756	·777	·796	·791	·787	·774	·789	08·80	9 35	·872	16 24	·716	13
·693	·676	·681	·685	·706	·716	·739	·740	·746	·743	·740	07·10	9 20	·810	16 8	·666	14
·654	**·640**	·659	·670	·696	·712	·743	·742	·732	·729	**·716**	**06·30**	9 15	·771	15 50	**·629**	15
·717	·705	·720	·731	·770	·787	·815	·815	·824	·803	·757	(7·74	21 28	·825	2 0	·689	16
·754	·733	·749	·761	·793	·812	·840	·843	·852	·831	·806	09·30	8 18	·867	15 35	·729	17
·754	·739	·771	·777	·811	·828	·847	·845	·846	·831	·817	09·74	9 13	·881	15 50	·735	18
·729	·712	·721	·728	·759	·773	·792	·792	·799	·792	·791	08·83	9 10	·873	16 5	·707	19
·676	·661	·697	·708	·730	·745	·775	·775	·771	·764	·753	07·60	8 25	·801	15 35	·649	20
·746	·745	·769	·784	·814	·839	·876	·873	·884	·861	·792	08·87	20 15	·894	3 32	·724	21
·795	·794	·805	·815	·842	·857	·879	·878	·878	·872	**·844**	**10·63**	9 15	·900	15 4	·784	22
·785	·784	·788	·791	·821	·830	·851	·842	·845	·838	·835	10·37	9 0	·900	15 40	·774	23
·770	·756	·774	·780	·806	·823	·840	·838	·836	·823	·817	09·74	9 32	·886	15 55	·752	24
·758	·740	·751	·766	·816	·823	·811	·816	·816	·808	·814	09·63	8 38	·880	15 35	·734	25
·730	·722	·731	·741	·782	·796	·818	·824	·824	·822	·793	08·90	9 0	·854	15 50	·718	26
·792	·788	·798	·800	·816	·828	·845	·848	·837	·833	·834	10·33	9 0	**·906**	15 4	·780	27
·772	·754	·764	·776	·805	·822	·845	·844	·846	·827	·814	09·63	9 6	·874	15 50	·744	28
·769	·760	·768	·777	·801	·810	·831	·832	·834	·827	·820	09·80	8 17	·891	16 0	·755	29
·741	·733	·737	·742	·772	·782	·803	·801	·800	·786	·800	09·10	9 0	·880	16 0	·728	30
·732	·728	·732	·736	·760	·766	·792	·796	·798	·798	·778	08·37	8 50	·836	16 0	·722	31
29·748	**29·738**	29·752	29·762	29·788	29·799	29·821	29·821	29·821	29·809	29·799	1009·08					Mean.
—·051	**—·061**	—·047	—·037	—·011	·000	+·022	+·022	+·022	+·010							Variation.
1007·37	**1007·07**	1007·57	1007·87	1008·77	1009·11	1009·83	1009·83	1009·83	1009·40							Mean in millibars.
—1·71	**—2·01**	—1·51	—1·21	—·31	+0·03	+0·75	+0·75	+0·75	+0·32							Variation in Millibars.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN INCHES OF MERCURY AT 32° F.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	29·793	29·782	29·776	29·771	29·781	29·791	29·823	29·839	29·862	29·860	29·843	29·817	29·791	29·771
2	·791	·782	·776	·772	·776	·778	·805	·818	·843	·841	·831	·801	·776	·754
3	·772	·753	·743	·738	·749	·761	·781	·793	·812	·811	·808	·783	·757	·735
4	·793	·784	·784	·782	·792	·796	·823	·838	·861	·863	·860	·838	·803	·774
5	·802	·783	·777	·770	·784	·791	·825	·839	·863	·866	·857	·836	·808	·799
6	·833	·819	·827	·829	·843	·849	·880	·889	·916	·917	·909	·887	·871	·852
7	·909	·900	·892	·887	·898	·902	·938	·953	·983	·983	·973	·951	·922	·900
8	·922	·906	·905	·901	·920	·930	·962	·973	**·996**	·996	·981	·954	·921	·895
9	·925	·904	·893	·887	·895	·899	·931	·948	·971	·966	·954	·929	·899	·873
10	·886	·864	·861	·854	·868	·871	·904	·920	·950	·950	·938	·911	·888	·857
11	·875	·853	·849	·843	·851	·862	·888	·899	·917	·922	·909	·880	·852	·821
12	·840	·826	·823	·821	·841	·850	·875	·882	·909	·905	·896	·866	·832	·803
13	·818	·804	·800	·794	·810	·808	·842	·860	·883	·888	·872	·844	·810	·796
14	·823	·806	·800	·790	·802	·810	·844	·858	·880	·883	·877	·853	·832	·810
15	·846	·834	·826	·820	·827	·840	·875	·890	·915	·920	·913	·886	·858	·843
16	·856	·845	·839	·833	·843	·853	·886	·900	·928	·933	·933	·910	·886	·859
17	·910	·891	·887	·876	·886	·898	·918	·939	·965	·966	·965	·938	·919	·897
18	·939	·921	·912	·903	·916	·921	·947	·961	·984	·978	·969	·941	·917	·893
19	·944	·926	·919	·911	·916	·920	·944	·960	·989	·988	·974	·945	·922	·897
20	·938	·916	·914	·905	·919	·928	·960	·967	·991	·989	·979	·949	·919	·887
21	·928	·902	·893	·891	·903	·910	·940	·957	·981	·978	·964	·940	·909	·896
22	·893	·879	·883	·876	·895	·902	·934	·949	·965	·966	·949	·919	·893	·865
23	·889	·877	·883	·881	·897	·909	·938	·951	·974	·965	·956	·926	·893	·869
24	·884	·864	·862	·854	·872	·880	·903	·915	·944	·942	·934	·908	·876	·845
25	·874	·857	·855	·848	·859	·863	·891	·902	·932	·929	·921	·894	·865	·834
26	·842	·816	·795	·770	·787	·785	·813	·835	·862	·860	·855	·828	·802	·777
27	·768	·748	·743	·736	·749	·754	·789	·805	·833	·836	·831	·804	·781	·753
28	·798	·790	·787	·778	·794	·807	·839	·852	·884	·886	·883	·862	·832	·799
29	·838	·825	·814	·815	·829	·841	·872	·890	·922	·928	·928	·909	·884	·857
30	·881	·861	·855	·853	·872	·878	·914	·930	·952	·955	·960	·935	·902	·868
Mean .	29·860	29·844	29·839	29·833	29·845	29·853	29·883	29·897	**29·922**	29·9.2	29·014	29·888	29·861	29·836
Variation.	—·004	—·020	—·025	—·031	—·019	—·011	+·019	+·033	**+·058**	+·058	+·050	+·024	—·003	—·028
Mean in milibars.	1011·20	1010·63	1010·50	1010·30	1010·67	1010·90	1012·00	1012·44	**1013·27**	1013·27	1013·03	1012·17	1011·23	1 10·40
Variation in milibars.	—0·13	—0·70	—0·83	—1·03	—0·66	—0·43	+0·67	+ 1·11	**+1·94**	+1·94	+1·70	+0·84	—0·10	—0·93

DECEMBER.

1	29·937	29·921	29·913	29·907	29·916	29·915	29·935	29·961	29·992	29·998	29·993	29·966	29·932	29·906
2	·947	·933	·923	·913	·917	·917	·946	·961	·982	·981	·973	·944	·915	·890
3	·931	·917	·909	·905	·912	·917	·950	·966	·986	·994	·994	·974	·938	·909
4	·893	·880	·881	·875	·881	·885	·915	·935	·959	·956	·942	·915	·880	·853
5	·879	·864	·857	·849	·861	·866	·896	·916	·942	·942	·937	·914	·889	·863
6	·887	·872	·862	·850	·864	·866	·896	·906	·934	·929	·922	·894	·868	·843
7	·881	·865	·864	·855	·862	·876	·900	·918	·944	·948	·941	·922	·895	·864
8	·891	·873	·869	·861	·878	·888	·917	·934	·956	·955	·951	·931	·901	·871
9	·924	·913	·911	·907	·913	·916	·944	·955	·986	·982	·965	·943	·923	
10	942	·922	·914	·906	·923	·928	·960	·982	30·014	30·014	30·012	·982	·946	·916
11	·966	·954	·944	·935	·942	·946	·981	·998	·030	·036	·034	30·002	·965	·932
12	·971	·961	·954	·947	·956	·963	·991	30·019	·045	·047	·057	·035	·999	·965
13	30·006	·996	·990	·981	·989	30·004	30·034	·048	·084	·084	·084	·066	30·028	30·006
14	·036	30·022	30·016	30·013	30·016	·020	·051	·064	**·092**	·092	·090	·066	·028	29·994
15	·002	29·985	29·978	29·961	29·969	29·970	29·998	·009	·033	·035	·031	·010	29·977	·945
16	29·969	·951	·934	·926	·935	·936	·960	29·977	·004	·005	29·999	29·975	·939	·915
17	·943	·924	·912	·904	·911	·919	·944	·954	29·979	29·985	·983	·961	·934	·909
18	·956	·944	·937	·930	·954	·961	·986	30·003	30·030	30·028	30·024	·998	·966	·944
19	·986	·972	·962	·952	·965	·974	30 006	·014	·031	·025	·008	·981	·946	·914
20	·932	·923	·919	·913	·922	·925	29·950	29·963	29·986	29·989	29·987	·963	·921	·887
21	·897	·885	·869	·864	·879	·885	·923	·939	·962	·963	·960	·937	·903	·865
22	·895	·882	·870	·862	·874	·882	·918	·934	·973	·972	·972	·959	·925	·898
23	·921	·902	·893	·885	·898	·907	·936	·950	·981	·978	·976	·954	·922	·894
24	·919	·896	·887	·883	·885	·891	·915	·927	·955	·957	·957	·933	·911	·889
25	·898	·891	·893	·891	·903	·913	·949	·971	30·007	30·009	30·009	·983	·963	·935
26	·948	·936	·938	·930	·940	·942	·972	·986	·018	·022	·028	30·004	·972	·948
27	·964	·946	·938	·933	·937	·942	·967	·985	·017	·017	·009	29·988	·954	·920
28	·952	·936	·925	·916	·930	·936	·958	·972	·010	·014	·014	·992	·960	·932
29	·975	·963	·962	·952	·967	·976	30·010	30·028	·058	·065	·064	30·046	30·016	·980
30	·998	·985	·971	·964	·970	·968	29·993	·010	·046	·042	·042	·020	29·986	·954
31	·969	·950	·942	·936	·948	·964	·994	·008	·042	·044	·042	·012	·984	·961
Mean .	29·942	29·928	29·921	29·913	29·923	29·929	29·958	29·974	30·003	**30·004**	30·001	29·977	29·945	29·917
Variation.	—·001	—·015	—·022	—·030	—·020	—·014	+·015	+·031	+·060	**+·061**	+·058	+·034	+·002	—·026
Mean in milibars.	1013·97	1013·47	1013·23	1013·00	1013·30	1013·50	1014·47	1015·03	1016·00	**1016·03**	1015·93	1015·14	1014:07	1013·14
Variation in milibars.	—0·03	—0·53	—0·77	—1·00	—0·70	—0·50	+·047	+1·03	+2·00	**+2·03**	+1·93	+1·14	+0·07	—0·86

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN INCHES OF MERCURY AT 32° F.)

Hours.										Mean.		Maximum.		Minimum.		Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24	Inches.	Millibars.	Time.	Mag.	Time.	Mag.	
												H. M.		H. M.		
29·748	29·743	29·757	29·767	29·783	29·805	29·811	29·807	29·802	29·793	29·797	1009·04	8 40	29·867	16 0	29·737	1
·733	·727	·735	·739	·762	·783	·801	·799	·801	·788	·784	08·63	9 0	·845	15 25	·717	2
·726	·720	·734	·740	·765	·781	·804	·803	·803	·802	·770	08.10	8 55	·819	15 0	·717	3
·754	·743	·757	·764	·793	·805	·830	·829	·826	·808	·804	09·23	9 20	·868	15 47	·749	4
·792	·784	·797	·803	·828	·845	·858	·855	·854	·840	·819	09·81	8 36	·868	3 10	·768	5
·844	·835	·849	·855	·883	·899	·927	·931	·923	·910	·874	11·63	21 0	·933	2 0	·817	6
·885	·885	·891	·897	·929	·945	·957	·951	·951	·935	·926	13·40	9 0	·987	2 40	·883	7
·881	·866	·883	·882	·921	·938	·964	·962	·956	·939	·931	13·53	8 35	·998	16 0	·862	8
·855	·841	·855	·859	·882	·891	·915	·913	·909	·892	·904	12·63	9 10	·974	15 47	·839	9
·838	·834	·839	·841	·862	·878	·897	·896	·892	·884	·883	12·00	8 50	·952	14 55	·832	10
·798	792	·800	·801	·829	·844	·861	·859	·858	·849	·855	10·97	9 20	·927	15 37	·789	11
·780	·764	·768	·768	·790	·809	·828	·829	·832	·821	·832	10·27	9 0	·912	16 0	·760	12
·770	·760	·774	·780	·813	·824	·845	·844	·846	·832	·821	09·83	9 0	·892	15 10	·754	13
·794	·787	·806	·800	·830	·842	·863	·860	·862	·850	·832	10·27	9 30	·886	16 0	·784	14
·825	·807	·815	·821	·846	·855	·878	·874	·873	·860	·856	11·06	9 15	·922	15 55	·804	15
·853	·849	·850	·864	·891	·908	·927	·928	·927	·913	·884	12·03	9 38	·938	3 40	·830	16
·886	·874	·885	·888	·925	·938	·956	·952	·954	·944	·919	13 21	9 40	·970	3 20	·872	17
·881	·877	·887	·899	·930	·947	·971	·968	·966	·949	·932	13·57	8 30	·986	15 50	·874	18
·877	·863	·879	·890	·934	·946	·968	·969	·964	·948	·933	13·60	9 0	·994	16 0	·861	19
·879	·869	·891	·905	·937	·949	·958	·955	·956	·936	·933	13·60	8 55	·997	15 50	·867	20
·871	·856	·868	·874	·904	·911	·918	·909	·905	·895	·912	12·97	8 45	·980	16 0	·849	21
·852	·846	·855	·859	·886	·892	·910	·909	·909	·891	·899	12·51	8 25	·971	16 15	·843	22
·849	·833	·848	·857	·892	·908	·927	·920	·922	·902	·903	12·60	8 45	·980	15 55	·832	23
·829	·817	·829	·842	·864	·888	·904	·899	·897	·876	·880	11·90	8 50	·948	15 30	·810	24
·813	·801	·812	·819	·849	·860	·878	·872	·871	·852	·865	11·37	9 0	·936	15 50	·796	25
·768	·757	·766	·772	·792	·800	·812	·804	·795	·777	·803	09·20	9 15	·865	16 5	·753	26
·738	·728	·737	·744	·776	·798	·819	·816	·816	·803	·779	08·41	9 18	·841	15 15	·727	27
·786	·769	·787	·813	·825	·840	·863	·863	·859	·840	·827	10·04	9 10	·892	15 25	·764	28
·835	·810	·824	·836	·873	·886	·908	·908	·909	·888	·868	11·47	9 50	·936	2 45	·806	29
·848	·826	·832	·856	·891	·916	·958	·957	·952	·942	·900	12·50	10 0	·968	16 15	·824	30
29·820	29·809	29·821	29·828	29·856	29·871	29·891	29·888	29·887	29·872	29·864	1011·33					Mean.
—·044	—·055	—·043	—·036	—·008	+·007	+·027	+·024	+·023	+·008							Variation.
1009·80	1009·40	1009·83	1010·07	1011·00	1011·53	1012·23	1012·17	1012·14	1011·57							Mean in millibars.
—1·53	—1·93	—1·50	—1·26	—0·33	—0·20	+0·90	+0·84	+0·81	+0·24							Variation in millibars.

DECEMBER.

29·887	29·866	29·892	29·906	29·925	29·939	29·960	29·965	29·967	29·954	29·936	1013·70	9 0	30 000	16 0	29 861	1
·879	·868	883	·891	·916	·928	·945	·944	·946	·941	·928	13·47	9 0	29·989	15 25	·863	2
·887	·880	·886	·891	·912	·918	·919	·911	·915	·905	·926	13·40	9 0	·997	15 55	·877	3
·839	·832	·842	·851	·881	·899	·920	·915	·913	·897	·893	12·30	8 42	·963	15 0	·829	4
·851	·840	·848	·857	·890	·898	·917	·914	·918	·898	·888	12·17	8 55	·948	15 45	·830	5
·837	·825	·837	·842	·870	·886	·904	·902	·903	·888	·879	11·81	8 50	·938	15 22	824	6
·853	·845	·852	·859	·888	·898	·914	·912	·913	·904	·891	12·23	9 7	·950	15 45	·844	7
·857	·852	·866	·873	·900	·916	·939	·940	·939	·928	·904	12·63	9 5	·961	15 0	·849	8
·913	·902	·907	·907	·933	·941	·965	·966	·965	·951	·938	13·77	9 45	·991	15 47	·899	9
·896	·880	·884	·890	·925	·938	·967	·972	·976	·970	·944	14·03	10 15	30·024	16 5	·878	10
·900	·881	·888	·891	·916	·929	·956	·967	·970	·964	·955	14·37	9 45	·044	16 0	·878	11
·948	·937	·939	·947	·981	·991	30·023	30·026	30·034	30·017	·990	15·60	9 35	·063	16 5	·935	12
·984	·971	·979	·986	30·012	30·020	·040	·038	·048	·037	30·021	16·63	9 10	·080	15 55	·968	13
·982	·971	·978	·977	29·998	·006	·026	·026	·030	·010	·025	16·77	9 15	102	14 50	·970	14
·933	·923	·931	·935	·960	29 970	29·991	29·991	29·989	29·980	29 979	15·20	9 30	·041	16 0	·919	15
·903	·897	·907	·914	·938	·947	·963	·961	·963	·952	·949	14·20	9 17	·011	15 35	·893	16
·889	·879	·885	·889	·923	·931	·952	·957	·967	·959	·933	13·60	9 25	29·993	15 55	·875	17
·932	·920	·932	·946	·974	·982	30·006	30·006	30·002	·994	973	15·00	9 10	30·036	15 30	·916	18
·893	·881	·892	·898	·936	·952	29·962	29·964	29·963	·942	·959	14·51	8 52	·033	14 50	·878	19
·863	·843	·849	·857	·883	·893	·919	·921	·915	·901	·918	13·17	9 0	29·995	15 30	837	20
·845	·831	·847	·859	·891	·903	·924	·923	·921	·903	·899	12·50	9 7	·967	15 47	·827	21
·878	·872	·883	·890	·914	·922	·952	·952	·948	·935	·915	13·07	9 7	·978	3 40	·858	22
·877	·864	·874	·878	·910	·922	·944	·940	·942	·926	·920	13·20	9 0	·984	16 0	·860	23
·879	·867	·879	·883	·910	·916	·930	·923	·913	·899	·909	12·80	9 15	·961	16 5	·863	24
·907	·891	·899	·903	·923	·933	·953	·953	·957	·951	·937	13·74	9 10	30·013	3 0	·887	25
·932	·916	·929	·936	·950	·964	·984	·988	·988	·972	·964	14·73	10 0	·034	16 0	·912	26
·898	·886	·896	·902	·929	·947	·974	·972	·974	·960	·952	14·27	8 55	·020	15 35	·882	27
·914	·9 4	·914	·924	·957	·970	·990	·992	·994	·983	·958	14·47	9 10	·018	15 25	·902	28
·960	·944	·954	·954	·975	·988	30·004	30·006	30·012	30·000	·994	15·73	9 20	·072	15 55	·938	29
·942	·934	·936	·938	·954	·963	29·984	29·986	29·987	29·976	·981	15·23	9 20	·052	15 55	·920	30
·944	·936	·950	·958	·992	30·003	30·028	30·026	30 022	30·008	·986	15·40	9 30	·050	3 10	·932	31
29 900	29·888	29·898	29·904	29·931	29·942	29·963	29·963	29·964	29·952	29·943	1014·00					Mean.
—·043	—·055	—·045	—·039	—·012	—·001	+·020	+·020	+·021	+·009							Variation.
1012·50	1012·17	1012·47	1012·63	1013·53	1013·97	1014.70	1014·70	1014·73	1014·27							Mean in millibars.
—1·50	—1·83	—1·53	—1·37	—0·47	—0·03	+0·70	+0·70	+0·73	+0·27							Variation in millibars.

RAINFALL (IN INCHES), 1932.

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

JUNE. (FROM PLUVIOGRAPH RECORDS.)

Date.	Hours.													
	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	0·11	0·01	..	..	..	0·01
4	..	..	..	..	..	..	..	..	..	0·14	..	..	.	..
5	..	..	..	..	..	0·02	..	0·03	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7		..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	0·04	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	0·03	0·16	..	..	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	0·02	..	..	..	..	..	..	..	0·03	..	..	..	..
19	..	0 02	0·42	..	..	0·03	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	0·21	..
21	..	..	..	..	..	0·01	..	..	..	0·02	..	..	..	..
22	..	..	..	..	..	..	0·01	..	..	0·38	0·07	0·39	0·11	0·26
23	0·48	0·10	0 03	0·01	0·07	0·18	0·08	0·02	..	..	..	..	..	..
24	..	0·01	..	..	..	0·33	0·20	0·45	0·14	0 05	..	0·45	..	0·3
25	..	..	..	0·02	..	0·05	0·02	..	..	..	..	0 04	0·01	..
26	0·05	..	..	..	..	..	..	..	..	..	..	..	..	..
27	0·01	0·07	..	..	0·01	0·30	0·08	0·01	..	..	..	..	..	..
28	..	..	..	..	..	..	..	0·04	..	..	..	..	..	..
29	..	..	0·04	..	..	.	..	..	..	..	..	..	..	..
30	0·01	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	0·55	0·22	0·49	0·03	0·08	0·92	0·39	0·55	0·28	0·79	0·07	0·92	0·33	0·62

JULY.

1	..	0·01	..	..	..	..	..	..	..	..	..	..	0·04	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	0·46	0·07	..	..	..	..	..
4	..	..	..	..	0·06	..	..	..	..	..	..	..	0·02	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	0·07	0·01	..	..	0·18	0·16	0·32	0·14	0·01	..	0·30	0·61	..	..
7	0·05	0·03	..	0·01	0·02	0·22	0·24	0·0	0 08	0·03	0·09	..	..	0 18
8	0·05	0·05	0·08	0·03	0·01	0·06	..	0·13	0·05	0·01	0·07	0·67	0·15	0·04
9	..	..	0·22	0·18	..	..	..	0·62	0·30	0·08	0·09	..	1·14	0·62
10	0·01	0 09	0 20	0·03	0·05	0·13	0·41	0·33	0·70	0·20	0·20	0·60	0·17	0·11
11	0·23	0·29	0·25	0·25	0·37	..	0·05	..	0·10	..	0·05	..	..	..
12	..	..	..	0·01	..	..	..	..	..	..	..	0·05	..	..
13	0·02	..	0·11	0·01	0·01	..	..	..	..	0·09	..	..	..	0·05
14	0·01	0·02	0·17	0·11	0·04	0·01	..	..	..	0·01	..	..	..	0·01
15	0·17	0·20	0·03	0·03	0·09	0·07	0·15	0·12	0 03	0·14	..	..	..	..
16	..	..	..	..	..	..	..	..	0·03	..	..	..	..	0·01
17	..	..	..	..	..	..	..	..	0·02	..	..	0·16	0·01	0·01
18	..	..	0·04	..	..	..	..	..	..	0·03	..	..	..	..
19	..	..	..	..	..	..	0·09	..	..	..	..	0·01	..	..
20	..	0·02	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	0·04	0·19	0·01	0·01	..	..	..
23	0·06	..	0·04	0·19	0 11	0·02	0·11	..	..	0·12	0·05	..	0·02	..
24	..	..	0·10	..	..	..	0·04	..	0·05	0·08	0·09	..	..	..
25	0·26	0·06	0·22	0·67	0·59	0·19	0·18	0 06	0·12	0·30	0·04	0·02	..	..
26	..	0·01	..	..	0·14	..	..	0·17	..	0·01	..	0·03	0·01	0·15
27	..	..	..	..	..	0·01	..	..	..	0·12	0·02	..	..	0·03
28	0·03	0·20	..	0·26	0·03	0·19	..	..	..	0·01	..	0·01	..	..
29	..	..	..	0·02	..	..	..	..	..	..	..	0·15	..	..
30	0·03	..	..	..	..	..	..	..	0 13	..	..	..	..	..
31	..	..	0·26	0·12	..	0·02	0 11	0·48	0 07	0·03	0 01	..	..	..
Total	0·99	0·99	1·72	1·91	1·70	1·08	1·70	2·62	1·95	1·27	0·95	2·31	0·56	1·21

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

JUNE. (FROM PLUVIOGRAPH RECORDS

Hours.										Daily Total.	Maximum fall in one hour.	Time of occurrence.	Daily* total by Newman.	Date.
14–15	15–16	16–17	17–18	18–19	19–20	20–21	21–22	22–23	23–24			H. to H.		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
..	0·23	0·02	..	..	..	..	..	..	..	0·38	0·23	15 16	0·41	3
..	..	..	..	..	..	..	..	..	..	0·14	0·14	9 10	0·15	4
..	..	..	..	..	..	..	..	..	.	0·05	0·03	7 8	0·05	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	8
..	..	..	..	..	..	..	..	..	..	..	..	..	..	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	12
..	..	..	..	..	..	..	..	..	..	0·04	0·04	11 12	0·05	13
..	..	..	..	..	..	..	..	..	..	..	..	..	..	14
..	..	..	..	..	..	0·01	0·02	0·01	..	0·04	0·02	21 22	0·04	15
..	..	..	0·05	..	0·05	..	..	..	..	0·29	0·16	9 10	0·29	16
..	..	..	..	..	..	..	..	..	..	..	..	..	..	17
..	..	..	..	..	..	..	0·01	..	0·08	0·14	0·08	23 24	0·16	18
..	..	..	..	0·07	0·13	..	..	..	..	0·67	0·42	2 3	0·69	19
..	..	..	..	..	..	..	..	..	..	0·21	0·21	12 13	0·22	20
..	..	..	..	..	..	..	0·12	..	0·03	0·18	0·12	21 22	0·20	21
0·01	..	..	..	..	2·03	0·52	0 31	0 03	0·08	2·20	**0·52**	20 21	**2·51**	22
..	..	0·01	..	0·44	0·07	0·14	..	0·51	..	2·14	0·51	22 23	2·24	23
0·05	0·09	0·02	0·02	..	..	..	0·04	0·08	0·01	**2 29**	0·45	7 8	2·45	24
..	..	0·03	0·01	..	..	..	0·06	..	0·08	0·32	0·08	23 24	0·39	25
..	..	..	..	..	..	..	..	..	..	0 05	0·05	0 1	0·05	26
..	..	..	..	..	..	..	..	..	0·10	0·58	0·30	5 6	0·58	27
..	..	..	..	..	..	0·01	..	..	0·03	0·08	0·04	7 8	0·08	28
..	..	..	..	..	..	..	..	..	..	0·04	0·04	2 3	0·05	29
..	..	..	..	..	0·01	..	..	0·01	..	0·03	0·01	0 1	0·03	30
0·06	0·32	0·08	0·08	0·51	0·29	0·68	0·56	0·64	0·41	9·87	..	..	10·64	Total.

JULY.

..	..	..	..	..	..	..	..	..	..	0·05	0·04	12 13	0·05	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
..	..	..	..	..	..	..	..	..	..	0·53	0·46	7 8	0·55	3
..	0·01	0·01	..	..	..	..	..	..	0·01	0·11	0·06	4 5	0·13	4
..	0·06	0·02	0·07	..	..	1·00	1·53	0·51	0·82	4·01	**1·53**	21 22	4·16	5
..	..	0·05	0·02	..	..	..	0·10	0·09	0·14	2·20	0·61	11 12	2·28	6
0·01	..	..	..	..	..	..	0·03	..	0·12	1.18	0·24	6 7	1·27	7
0·31	0·02	0 05	0·07	..	..	..	..	..	0·03	1·88	0·67	11 12	2·00	8
0·11	0·01	..	..	..	0·02	..	..	..	0·01	2·33	0·62	7 8	2·46	9
0·13	0·02	..	..	..	..	..	0·11	0·72	0·32	**4·53**	0·72	22 23	**4·75**	10
..	..	0·08	0·06	..	0·01	..	..	..	0 01	1·75	0·37	4 5	1·79	11
0·01	..	..	..	..	..	..	..	0·22	0·05	0·34	0·22	22 23	0·36	12
..	0·02	..	..	0·02	..	..	0·03	0·01	0·49	0·86	0·49	23 24	0·93	13
0·04	..	..	..	..	..	..	0·01	0·02	0·05	0·50	0·17	2 3	0·55	14
..	..	..	..	..	..	..	..	..	..	1·03	0·20	1 2	1·16	15
..	..	0·02	..	..	..	..	..	..	..	0·06	0·03	8 9	0·07	16
..	..	..	..	..	..	..	0·06	0·05	0·01	0·32	0·16	11 12	0·37	17
..	..	..	..	..	..	..	0·01	..	..	0·08	0·04	2 3	0·08	18
0·02	..	..	..	..	..	..	..	..	..	0·12	0·09	6 7	0·13	19
..	..	..	0·04	..	..	..	..	..	..	0·06	0·04	17 18	0·06	20
..	..	..	0·12	0·48	0·03	..	..	..	..	0·63	0·48	18 19	0·67	21
..	0·02	..	..	..	0·15	0·20	0·29	..	..	0·91	0·29	21 22	0·96	22
..	..	..	0·09	0·04	..	..	..	..	..	0·85	0·19	3 4	0·92	23
..	0·01	..	..	..	0·07	0·12	0 09	0·05	0·51	1·21	0·51	23 24	1·23	24
..	0·05	..	0·02	.	0·04	0·01	..	..	0·02	2·85	0·67	3 4	3·22	25
0·33	..	..	..	..	..	..	0·02	0·32	0·14	1·33	0·33	14 15	1·43	26
0·11	..	0·03	0·04	0·01	..	0·18	0·13	..	..	0·68	0·18	20 21	0·74	27
..	..	..	..	0·02	..	..	..	..	..	0·74	0·25	3 4	0·79	28
..	..	..	..	0·02	..	..	..	..	..	0·19	0·15	11 12	0·23	29
..	..	0·08	0·04	0 35	..	..	..	0·07	0·06	0·76	0·35	18 19	0·86	30
..	0·02	..	..	..	..	..	0·01	0 01	..	1·14	0·48	7 8	1·27	31
1·07	0·24	0·34	0·57	0·94	0·32	1.51	2·42	2·07	2·79	33·23	..	..	35·47	Total.

* Adopted as the standard instrument in the Observatory since 1845.

RAINFALL (IN INCHES), 1932.

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

AUGUST.

(FROM PLUVIOGRAPH RECORDS.)

Date.	Hours.													
	0–1	1–2	2–3	3–4	4–5	5–6	6–7	7–8	8–9	9–10	10–11	11–12	12–13	13–14
1	0·01	0·01	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	0·08	..	..	0·02	..	..	..	..	0·03	0·01	..	..
3	..	..	0·11	..	..	..	..	..	0·01	..	..	..	..	0·02
4	..	..	..	..	0·03	..	0·02	..	..	..	..	..	..	0·04
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	0·08	..	0·01	..	..	0·11	0·22	0·28	..	0·24	..	..	..	0·04
7	..	..	..	..	..	..	0·66	0·67	..	0·08	..	..	0·05	0·04
8	..	..	0·03	..	..	0·04	0·12	..	..	..	..	..	..	..
9	0·05	0·05	..	0·01	..	..	..	..	..	..	..	..	..	..
10	..	0·09	..	..	0·04	..	..	..	0·05	..	0·02	..	..	0·06
11	..	..	..	..	0·01	..	..	..	..	..	..	..	..	..
12	0·02	..	..	0·08	..	..	0·01	..	..	..	..	..	..	0·01
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	0·03	..	..	..	..	..	..	0·01	..	0·06	..	..	..	0·03
15	..	..	..	..	..	..	..	0·13	..	..	..	..	0·05	0·02
16	..	..	..	0·01	..	0·03	..	..	..	..	..	..	..	.
1	..	..	..	..	0·07	0·02	0·01	..	..	0·04	..	..	..	..
18	..	0·08	..	..	..	0·18	0·05	0·01	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	..	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	..	..	..	..	..	..	..	..	..	..	..	..	..	..
26	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	..	..	..	0·05	..	..	..	..	..	..	..	..	..	..
29	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	0·01	0·02	..	..	..	..	..	..	..	..	..	..	..	..
31	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total ..	0·20	0·25	0·23	0·15	0·15	0·40	1·09	1·10	0·06	0·42	0·05	0·01	0·10	0·26

SEPTEMBER.

1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	0·78	0·59	0·02	..	..	..	..	0·13	..	0·01
3	..	..	..	..	..	..	0·01	0·01	..	..	..	..	..	..
4	..	..	..	0·02	..	..	..	0·08	0·72	0·20	0·06	..	..	..
5	0·25	0·43	0·11	0·13	0·27	0·04	0·01	0·01	0·02	0·03	0·05	..	..	..
6	..	..	..	..	..	0·01	..	..	..	0·02	..	..	..	..
7	..	..	0·16	..	..	..	..	..	..	..	..	..	..	..
8	0·01	0·01	0·02	..	..	0·01	0·02	..	..	..	0·01	0·01	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	0·01	..	..	..	0·22	..	0·01	..	..	..	..
11	..	..	..	..	0·07	0·12	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	0·09	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	0·02	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	..	0·10	0·04	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	..	..	..	..	..	..	..	..	..	..	..	..	..
21	0·01	..	..	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	0·01	..	..	..	..	..	..	..	..	..	..	..	..	..
26	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	..	..	..	..	..	..	..	..	..	..	..	..	..	..
28	..	..	..	..	..	..	..	..	..	..	..	..	..	..
29	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total .	0·28	0·54	0·35	0·16	1·12	0·77	0·06	0·32	0·74	0·35	0·12	0·14	..	0·01

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

AUGUST.

(FROM PLUVIOGRAPH RECORDS.)

Hours.										Daily total.	Maximum fall in one hour.	Time of occurrence.	Daily* total by Newman.	Date.
14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24			H. to H		
..	..	..	..	..	..	..	..	..	..	0·02	0·01	0 1	0·04	1
..	..	..	0·01	0·05	..	..	..	..	..	0·20	0·08	2 3	0·23	2
..	0·06	..	..	..	0·05	..	..	..	..	0·25	0·11	2 3	0·31	3
..	0·01	..	..	0·03	0·01	..	..	0·05	0·01	0·20	0·05	22 23	0·24	4
..	0·07	..	..	..	..	0·01	..	0·09	0·06	0·23	0·09	22 23	0·25	5
..	..	0·14	..	..	0·04	..	..	..	..	1·16	0·28	7 8	1·27	6
..	0·05	0·23	0·05	..	..	..	..	..	..	**1·83**	**0·67**	7 8	**1·90**	7
..	..	..	..	..	..	..	..	..	0·03	0·22	0·12	6 7	0·25	8
..	..	..	..	..	0·08	..	0·19	0·01	..	0·39	0·19	21 22	0·44	9
..	0·01	..	..	..	..	..	0·01	..	..	0·28	0·09	1 2	0·29	10
..	..	..	..	..	..	..	..	..	..	0·01	0·01	4 5	0·02	11
..	..	..	..	..	..	..	..	..	..	0·12	0·08	3 4	0·18	12
..	0·01	..	..	..	..	..	..	..	..	0·01	0·01	15 16	0·01	13
..	..	..	..	..	..	..	..	..	0·01	0·14	0·06	9 10	0·16	14
..	..	..	..	..	..	..	..	..	..	0·20	0·13	7 8	0·19	15
..	..	..	..	..	..	..	..	..	..	0·04	0·03	5 6	0·06	16
..	..	..	..	..	..	..	..	..	..	0·14	0·07	4 5	0·19	17
..	..	..	..	..	..	..	..	..	..	0·32	0·18	5 6	0·34	18
..	..	..	..	..	..	..	..	..	..	..	..	..	..	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
..	..	..	..	..	..	..	..	..	..	..	..	..	..	21
..	..	..	..	..	..	..	..	..	..	..	..	..	..	22
..	..	..	..	..	..	..	..	..	..	..	..	..	..	23
..	..	..	..	..	..	..	..	..	..	..	..	..	0·01	24
..	..	..	..	..	..	..	..	..	..	..	..	..	..	25
..	..	..	..	..	..	..	..	..	..	..	..	..	..	26
..	..	..	..	..	..	..	..	..	..	..	..	..	..	27
..	..	..	..	..	..	..	..	..	..	0·05	0·05	3 4	0·06	28
..	..	..	0·06	0·08	0·03	0 01	..	0·03	0·05	0·26	0·08	18 19	0·29	29
..	..	..	..	..	..	..	..	..	..	0·03	0·02	1 2	0·04	30
..	..	..	..	..	..	..	..	..	..	..	..	..	..	31
..	0·21	0·37	0·12	0·16	0·21	0·02	0·20	0·18	0·16	6·10	..	..	6·77	Total.

SEPTEMBER.

..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
0·06	0·01	..	..	..	..	..	0 01	..	..	1·61	0·78	4 5	1·63	2
..	..	..	0·01	0·05	0·23	0·21	0·03	0·01	..	0·56	0·23	19 20	0·59	3
..	..	..	..	0·12	0·82	2·14	0·83	0·23	0·23	**5·45**	**2·14**	20 21	**5·62**	4
..	..	..	..	..	..	..	..	..	..	1·35	0·43	1 2	1·45	5
..	..	..	..	0·02	..	..	..	..	..	0·05	0·02	9 10	0·05	6
..	..	..	..	..	..	..	..	..	0·01	0·17	0·16	2 3	0·18	7
..	..	..	..	..	..	..	..	..	..	0·09	0·02	2 3	0·11	8
..	..	..	..	..	..	..	..	..	..	..	..	..	0·01	9
..	..	..	..	..	0·02	..	..	0·02	..	0·28	0·22	7 8	0·31	10
..	..	..	..	..	..	..	..	..	..	0·19	0·12	5 6	0·19	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	12
..	..	..	..	..	..	..	0·02	..	..	0·02	0·02	21 22	0·02	13
..	..	..	..	..	..	..	..	..	..	0·09	0·09	9 10	0·09	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	15
..	..	..	..	..	..	..	..	..	..	0·02	0·02	2 3	0·03	16
..	..	0·10	..	..	0·21	0·07	..	0·08	0·01	0·47	0·21	19 20	0·49	17
..	..	..	..	..	..	..	..	..	..	0·14	0·10	1 2	0·16	18
..	..	..	..	..	..	..	..	0·02	..	0·02	0·02	22 23	0·02	19
..	..	..	..	..	..	..	..	..	..	..	..	..	..	20
..	..	..	..	..	..	..	..	..	..	0·01	0·01	0 1	0·01	21
..	..	..	..	..	..	..	..	..	..	..	..	..	..	22
..	..	..	..	..	..	..	..	..	..	..	..	..	..	23
..	..	..	..	..	..	..	..	..	..	..	..	..	..	24
..	..	..	..	..	..	..	..	..	..	0·01	0·01	0 1	0·02	25
..	..	..	..	..	..	..	..	..	..	..	..	..	..	26
..	..	..	..	0·13	..	..	..	..	..	0·13	0·13	18 19	0·13	27
..	..	..	..	..	..	..	..	..	..	..	..	..	0·01	28
..	..	..	..	..	..	..	0·01	..	..	0·01	0·01	21 22	0·01	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	30
0·06	0·01	0·10	0·01	0·32	1·28	2·42	0·90	0·36	0·25	10·67	..	..	11·13	

* Adopted as the standard instrument in the Observatory since 1845.

RAINFALL (IN INCHES), 1932.

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

OCTOBER.

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
2	..	..	..	..	..	..	..	..	..	..	..	..	..	..
3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..	..	..	..	..
5	..	..	..	..	..	..	..	..	..	..	..	..	..	..
6	..	..	..	..	..	..	..	..	..	..	..	..	..	..
7	..	..	..	..	..	..	..	..	..	..	..	..	..	..
8	..	..	..	..	..	..	..	..	..	..	..	..	..	..
9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
10	..	..	..	..	..	..	..	..	..	..	..	..	..	..
11	..	..	..	..	..	..	..	..	..	..	..	..	..	..
12	..	..	..	..	..	..	..	..	..	..	..	..	..	..
13	..	..	..	..	..	..	..	..	..	..	..	..	..	..
14	..	..	..	..	..	..	..	..	..	..	..	..	..	..
15	..	..	..	..	..	..	..	..	..	..	..	..	..	..
16	..	..	..	..	..	..	..	..	..	..	..	..	..	..
17	..	..	..	..	..	..	..	..	..	..	..	..	..	..
18	0·01	..	..	..	..	..	..	..	..	..	..	..	..	..
19	..	..	..	..	..	..	..	..	..	..	..	..	..	..
20	..	0·23	0·11	0·13	..	..	..	..	..	..	..	..	..	..
21	..	0·03	0·01	..	..	..	..	..	..	..	..	..	..	..
22	..	..	..	..	..	..	..	..	..	..	..	..	..	..
23	0·44	..	0·23	0·04	0·14	0·01	..	..	..	..	..	..	..	..
24	..	..	..	..	..	..	..	..	..	..	..	..	..	..
25	..	..	..	0·80	0·80	0·05	0·03	0·03	..	..	..	..	..	..
26	..	..	..	..	..	..	..	..	..	..	..	..	..	..
27	0·30	0·49	0·06	0·26	0·10	0·03	..	..	..	..	..	..	..	..
28	..	..	0·02	..	..	..	..	..	..	..	..	..	..	..
29	..	..	..	..	..	..	..	..	..	..	..	..	..	..
30	..	..	..	..	..	..	..	..	..	..	..	..	..	..
31	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Total	0·75	0·75	0·43	1·23	1·04	0·09	0·03	0·03	..	..	..	..	..	..

RAINFALL (IN INCHES), 1932.

(Totals for periods of sixty minutes from full hour to full hour of local mean time.)

OCTOBER.

Hours.											Daily total.	Maximum fall in one hour.	Time of occurrence.	Daily* total by Newman.	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24				H. to H.		
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8
..	..	..	0·06	..	..	..	..	..	..	0·06	0·06	17 18		0·08	9
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	14
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15
..	..	..	..	0·02	0·02	..	..	0·09	0·04	0·17	0·09	22 23		0·18	16
..	..	..	..	..	..	..	0·01	0·49	..	0·50	0·49	22 23		0·56	17
..	..	..	..	..	..	..	..	..	..	0·01	0·01	0 1		0·01	18
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	19
..	..	0·40	..	0·13	0·11	0·51	..	..	0·02	1·64	0·51	20 21		1·72	20
..	..	..	..	..	0·34	0·55	..	..	..	0·93	0·55	20 21		0·95	21
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	22
..	..	..	..	..	..	..	..	..	..	0·86	0·44	0 1		0·92	23
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	24
..	..	..	..	0·40	0·62	0·01	0·01	..	..	2·75	**0·80**	3 4		2·81	25
..	..	..	..	..	..	..	..	..	0·41	0·41	0·41	23 24		0·44	26
..	..	..	..	..	..	..	..	..	..	1·24	0·49	1 2		1·31	27
..	..	..	..	..	..	..	..	..	..	0·02	0·02	2 3		0·03	28
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	29
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	30
..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	31
..	..	0·40	0·06	0·55	1·09	1·07	0·02	0·58	0·47	8·59	..	..		9·01	Total.

* Adopted as the standard instrument in the Observatory since 1845.

NOTE.—There was a fall of 0·37″ of rain between 16h and 19h and of 0·20″ between 17h and 18h on the 21st and 22nd May respectively and of 0·07″ between 17h and 18h on the 28th November. The months of January to April and December were dry.

The fall of rain in the year was 69·00″ by Pluviograph and 73·16″ by Newman; the difference is due to the difference in heights of the receiving funnels.

The number of rainy days in the year was 73 according to Pluviograph and 74 according to Newman, assuming a "rainy day" to be one on which a tenth of an inch of rain or upwards has fallen.

The greatest fall of rain during a day in the year, that of 4th September, was 5·45″ by Pluviograph and 5·62″ by Newman.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JANUARY. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	5	5	5	5	5	5	5	6	5	5	5	8	10	11	10
2	7	7	7	8	6	5	8	7	7	8	5	5	6	8	10
3	8	8	8	10	8	9	11	12	12	8	7	6	5	8	10
4	7	7	7	7	5	7	9	10	6	8	6	5	5	9	8
5	5	6	8	8	9	8	5	6	9	9	6	5	6	8	8
6	6	7	6	6	7	7	7	7	7	7	7	6	6	7	9
7	5	5	6	6	7	11	12	10	12	10	6	7	7	7	9
8	4	5	6	8	10	11	10	10	12	12	10	7	7	9	10
9	5	8	7	8	12	7	6	7	9	8	7	6	5	7	9
10	8	7	7	7	7	7	7	10	7	9	8	5	5	9	12
11	5	7	5	8	11	11	11	9	10	10	7	6	5	8	10
12	6	5	5	7	6	7	7	9	7	6	5	5	5	7	8
13	6	8	10	14	12	13	11	10	9	11	8	5	5	6	9
14	8	5	5	5	7	8	8	8	9	10	9	6	6	5	7
15	5	5	6	5	6	7	8	8	8	7	6	5	5	9	11
16	5	5	5	5	7	9	9	9	7	5	5	5	5	7	11
17	6	6	7	7	6	6	10	9	9	9	7	5	7	9	10
18	6	6	9	7	9	10	12	10	8	8	5	4	4	7	9
19	7	7	4	6	8	9	13	13	13	10	9	8	8	7	7
20	5	6	6	8	9	8	9	8	9	11	8	6	6	5	10
21	6	5	9	5	7	7	9	11	10	8	7	5	5	5	10
22	3	5	7	8	10	8	8	6	7	7	6	5	5	7	9
23	3	4	8	7	9	11	12	10	9	9	6	5	5	5	8
24	4	6	7	8	9	9	7	9	8	7	6	5	5	8	9
25	4	5	7	8	8	9	9	9	9	10	8	5	4	5	9
26	5	7	8	7	7	9	7	7	7	7	6	4	4	6	9
27	4	4	6	7	6	7	7	9	7	6	5	4	4	7	8
28	6	6	7	8	9	7	7	8	7	8	6	12	9	8	9
29	3	3	4	5	7	7	6	6	7	7	6	4	4	9	9
30	5	3	5	6	4	6	8	9	10	8	7	5	5	6	8
31	7	7	6	7	9	11	12	10	8	6	6	6	8	10	10
Mean ..	5·5	5·8	6·5	7·1	7·8	8·3	8·7	8·8	8·5	8·2	6·6	5·6	5·7	7·4	9·2

FEBRUARY.

1	4	5	3	4	5	5	6	7	6	5	4	5	8	12	12
2	6	6	5	5	6	7	9	9	10	8	7	6	10	10	10
3	5	5	5	5	6	6	7	6	10	10	8	12	12	12	11
4	7	7	7	7	7	7	9	9	9	8	8	10	10	12	13
5	8	6	5	5	7	8	9	9	9	9	8	7	8	11	11
6	5	6	7	8	8	9	11	10	8	6	5	4	10	13	11
7	11	8	8	9	9	9	10	11	9	8	6	5	5	7	8
8	10	10	9	5	7	7	6	7	7	7	7	6	9	10	11
9	7	7	7	7	7	7	7	5	6	8	8	6	8	9	11
10	9	7	6	7	7	7	7	7	7	6	6	12	15	16	17
11	7	11	8	9	10	10	8	7	7	8	8	5	13	15	14
12	9	5	6	6	6	7	10	10	10	9	9	11	14	15	15
13	5	7	6	6	6	6	7	8	8	8	8	8	12	12	12
14	10	5	6	7	8	7	10	8	7	9	12	14	18	19	16
15	13	13	12	12	11	8	9	9	11	14	14	12	13	14	15
16	9	11	13	11	11	13	14	13	12	13	13	11	13	12	7
17	9	8	10	8	7	7	9	11	9	8	4	4	8	10	9
18	5	4	3	8	7	5	5	6	7	4	7	7	9	10	10
19	8	8	7	10	12	12	13	14	13	10	9	9	11	13	14
20	8	8	9	13	12	8	9	10	13	14	13	10	9	8	14
21	5	8	9	9	9	9	10	12	12	13	8	6	7	11	13
22	5	5	6	11	9	8	8	6	7	7	4	8	10	14	15
23	5	10	15	12	10	14	15	13	11	8	6	10	8	7	10
24	5	7	7	8	9	8	6	8	12	10	5	4	7	9	10
25	4	4	4	6	9	7	7	9	7	5	4	5	7	8	9
26	5	5	7	7	7	7	5	6	5	3	5	7	9	9	10
27	8	8	7	6	5	4	7	9	11	9	5	7	7	8	11
28	8	5	6	6	7	7	7	6	4	6	8	10	11	12	16
29	5	5	6	6	5	5	5	4	6	6	4	6	12	15	15
Mean ..	7·1	7·0	7·2	7·7	7·9	7·7	8·4	8·6	8·7	8·2	7·3	7·8	10·1	11·5	12·1

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JANUARY. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's Anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
11	11	11	10	11	10	8	6	7	7·5	4·8	15 20	15	10 45	1	1
10	10	10	9	9	9	7	8	7	7·6	5·0	14 50	13	5 10	4	2
10	10	10	9	8	7	8	7	7	8·6	5·3	17 5	13	12 0	4	3
10	10	9	8	9	6	4	5	4	7·1	4·6	16 50	13	8 25	4	4
9	10	10	13	12	12	8	6	5	8·0	5·2	18 30	17	12 5	4	5
10	11	12	15	12	9	6	6	6	7·9	5·3	18 10	20	7 55	4	6
9	10	7	7	6	4	5	5	4	7·4	4·8	6 25	14	20 20	4	7
10	9	9	8	5	5	5	3	5	7·9	5·2	14 25	14	22 15	3	8
10	10	10	11	10	8	7	7	8	8·0	5·1	4 55	14	7 10	4	9
14	14	13	13	14	12	6	6	5	8·8	5·9	19 8	20	8 35	4	10
12	12	14	13	12	9	5	5	6	8·8	5·5	17 12	18	2 25	4	11
10	11	13	13	13	13	11	9	7	8·1	4·7	17 26	18	8 50	2	12
12	12	15	15	14	14	9	8	8	10·2	6·4	18 58	20	11 40	4	13
10	11	12	13	13	13	10	7	6	8·4	5·4	18 58	18	1 40	4	14
11	12	9	10	9	9	7	7	7	7·6	4·6	16 20	17	11 0	4	15
12	12	12	12	14	13	11	6	5	8·2	5·1	19 15	20	11 0	4	16
11	12	13	12	12	10	8	8	7	8·6	5·5	18 50	18	12 10	4	17
10	10	9	11	11	7	6	7	7	8·0	5·1	18 45	15	10 53	3	18
10	13	12	11	11	12	9	7	6	9·2	5·9	16 25	18	2 20	4	19
12	12	12	12	12	10	8	6	7	8·5	5·8	15 30	18	11 45	4	20
10	11	8	9	10	5	4	4	5	7·3	4·9	16 40	14	11 30	4	21
10	11	13	12	10	6	5	5	3	7·3	4·9	17 3	17	0 40	3	22
10	11	13	14	14	10	7	7	7	8·5	5·8	19 17	19	11 10	3	23
9	11	8	8	7	5	4	5	4	7·0	4·5	16 55	13	0 35	3	24
10	10	11	12	10	7	7	6	5	7·8	5·5	18 5	16	4 45	4	25
10	11	12	13	11	7	6	3	4	7·4	4·8	19 10	17	22 10	3	26
8	10	10	9	11	11	7	8	5	7·1	4·7	19 20	15	12 40	3	27
10	11	10	10	11	10	8	5	4	8·2	5·6	17 10	16	8 50	3	28
9	11	10	12	13	10	5	3	4	6·8	4·5	19 40	16	22 25	3	29
11	11	10	9	8	5	6	5	7	7·0	4·5	16 30	14	2 0	3	30
10	9	10	9	7	5	7	6	4	7·9	5·6	6 20	15	11 12	2	31
10·3	10·9	10·9	11·0	10·6	8·8	6·9	6·0	5·7	8·0	5·2					Mean.

FEBRUARY.

9	9	9	7	5	4	9	8	5	6·5	4·5	13 58	17	11 10	2	1
9	10	9	9	10	10	10	8	6	8·1	5·7	14 10	17	4 15	4	2
11	12	12	13	13	13	11	9	7	9·2	6·6	19 20	19	7 32	4	3
14	14	14	15	15	15	11	7	7	10·1	7·0	17 58	20	10 15	3	4
11	12	12	14	12	11	9	8	7	9·0	6·3	18 15	20	2 50	4	5
9	11	11	11	11	13	13	11	11	9·3	6·5	13 15	20	11 45	3	6
11	10	10	8	8	8	10	9	9	8·6	5·8	15 15	15	2 10	3	7
13	14	14	11	12	13	11	11	8	9·4	6·4	16 35	19	11 15	2	8
12	12	13	11	12	15	14	11	8	9·1	6·0	20 28	18	11 40	4	9
18	16	17	16	16	9	6	6	6	10·3	7·0	14 32	22	9 40	3	10
13	13	13	12	11	9	7	9	12	10·0	6·7	13 32	22	11 32	2	11
14	14	14	14	13	13	11	8	6	10·4	7·3	14 10	20	11 5	3	12
14	14	14	14	15	16	14	12	12	10·2	6·9	19 50	21	11 25	2	13
18	19	19	18	16	15	13	12	8	12·3	8·9	12 57	26	8 20	3	14
16	19	20	17	17	17	16	12	9	13·5	9·7	17 5	27	7 3	5	15
9	14	15	15	12	12	9	7	9	11·6	7·7	17 1	22	22 12	4	16
9	10	9	9	9	8	4	5	5	7·9	5·1	15 50	13	11 8	2	17
9	8	7	7	7	6	7	7	7	6·7	3·6	15 7	16	9 50	1	18
14	15	15	16	16	11	10	8	7	11·5	8·2	19 15	22	11 20	5	19
15	16	17	15	15	13	13	12	7	11·7	8·1	19 48	22	13 12	5	20
15	18	16	14	13	14	15	9	6	10·9	7·7	16 45	24	12 35	4	21
16	17	17	17	16	16	15	10	9	10·7	7·5	20 32	25	10 55	2	22
8	7	7	5	4	4	3	5	4	8·4	5·5	2 52	19	21 0	3	23
10	9	9	9	7	5	3	3	3	7·2	4·9	14 58	16	0 25	3	24
10	10	10	8	6	3	3	2	2	6·2	4·1	15 32	17	11 1	3	25
10	11	10	6	3	3	2	5	7	6·4	4·3	15 30	15	10 53	1	26
12	11	12	13	11	9	9	9	7	8·5	6·3	18 50	17	11 16	3	27
14	16	16	14	10	8	6	5	5	8·9	6·2	17 0	20	8 50	1	28
17	15	12	11	9	5	4	3	5	7·7	5·3	15 15	21	10 25	1	29
12·4	13·0	12·9	12·0	11·2	10·3	9·2	8·0	7·0	9·3	6·4					Mean.

WIND VELOCITY, 1932.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	4	6	9	9	7	7	6	6	7	8	5	4	8	11	11
2	12	7	5	4	3	4	4	5	6	6	5	4	9	10	12
3	3	3	4	4	6	7	8	5	8	8	4	3	8	11	14
4	5	7	6	7	4	4	9	9	11	10	5	4	7	9	10
5	6	6	8	7	7	8	7	4	5	6	4	5	8	12	14
6	3	6	8	5	7	10	11	11	10	7	4	4	7	11	13
7	3	4	3	2	3	3	5	5	7	7	6	5	9	9	11
8	5	6	5	6	7	5	3	6	6	5	4	4	8	11	13
9	4	4	6	7	5	3	5	9	12	8	10	11	11	11	11
10	2	2	2	2	4	4	2	5	7	7	7	6	14	16	16
11	11	15	16	12	13	13	13	13	13	7	11	15	16	17	17
12	13	12	12	13	13	16	16	13	8	11	10	14	15	17	21
13	8	9	14	10	7	7	8	7	11	13	14	16	16	16	16
14	6	9	14	17	11	10	11	12	13	12	15	16	15	16	17
15	8	10	9	9	8	7	7	6	7	12	13	12	15	16	15
16	10	10	10	10	7	7	7	5	5	6	10	9	14	16	15
17	10	8	7	5	5	8	6	6	7	6	4	10	12	14	15
18	9	10	8	6	5	5	6	5	5	5	8	14	14	15	15
19	5	7	6	8	9	7	7	7	7	6	5	7	11	13	14
20	3	4	3	3	5	5	2	4	7	6	5	7	11	13	13
21	6	9	11	11	11	10	6	9	12	14	13	13	15	16	16
22	14	11	10	10	10	7	6	7	9	12	12	13	13	14	16
23	12	11	10	6	7	9	8	6	8	9	10	15	16	15	16
24	13	13	14	14	9	7	5	6	9	14	17	15	18	17	19
25	7	8	11	14	15	10	8	7	8	8	11	14	17	20	20
26	13	11	10	11	11	10	8	9	11	9	8	10	13	13	13
27	10	15	13	11	10	10	7	5	5	5	12	11	13	13	14
28	16	10	5	5	5	5	8	8	4	4	7	10	12	13	15
29	14	11	5	7	7	7	5	3	5	5	11	12	14	15	16
30	13	9	7	7	12	12	6	6	7	5	6	10	15	18	18
31	14	17	20	15	14	14	9	6	3	7	9	12	13	15	16
Mean ..	8·5	8·7	8·7	8·3	8·0	7·8	7·1	6·9	7·8	8·0	8·9	9·8	12·5	14·0	14·9

APRIL.

1	7	11	17	16	17	17	11	8	10	11	15	15	15	15	15
2	9	11	9	5	4	3	6	5	5	3	7	11	14	15	16
3	10	8	11	16	17	21	21	21	22	19	17	14	13	11	11
4	8	6	6	4	5	14	13	10	8	5	6	9	10	12	13
5	14	8	7	7	5	5	3	4	3	3	8	8	9	10	12
6	4	5	4	3	3	4	4	4	5	4	6	8	13	14	15
7	11	11	11	7	5	5	5	5	5	6	9	12	15	18	18
8	10	7	7	4	4	5	4	4	7	11	13	12	13	16	18
9	12	13	15	13	9	6	6	7	9	6	10	13	15	17	16
10	15	16	16	14	8	5	7	4	11	12	12	12	14	16	17
11	5	5	8	12	14	15	15	15	15	15	17	15	12	12	12
12	9	10	9	10	11	12	14	14	14	12	9	7	8	11	13
13	3	3	3	4	4	3	4	4	11	14	12	12	11	11	11
14	7	5	7	8	11	12	11	10	10	11	11	12	12	13	14
15	3	4	5	5	5	5	4	5	8	10	11	9	8	8	8
16	13	13	11	11	10	11	10	10	11	11	11	13	14	15	15
17	11	12	10	10	10	8	10	12	12	12	13	14	13	13	12
18	4	4	4	5	5	5	4	6	9	8	5	8	11	14	16
19	10	9	10	9	7	5	6	7	8	12	13	14	14	15	16
20	9	7	7	6	5	5	5	6	8	8	9	11	13	15	15
21	7	8	7	9	6	5	3	3	8	10	9	11	13	14	15
22	7	6	7	7	7	5	6	5	7	9	11	15	15	16	18
23	8	10	11	10	11	9	6	7	9	11	13	14	14	15	17
24	5	12	13	10	9	9	11	12	14	13	14	13	14	15	16
25	5	4	6	6	6	4	5	7	6	8	9	12	13	15	14
26	4	8	7	3	6	7	6	7	6	7	8	9	9	11	13
27	5	4	3	3	3	2	2	6	5	5	7	12	14	15	16
28	8	4	3	3	5	5	6	8	10	13	18	18	18	20	22
29	9	8	10	8	7	10	11	7	6	8	13	17	20	24	21
30	11	13	5	4	4	5	7	7	6	9	16	19	22	22	21
Mean ..	8·1	8·2	8·3	7·7	7·4	7·6	7·5	7·7	8·9	9·5	11·1	12·3	13·3	14·6	15·2

WIND VELOCITY, 1932.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's Anemograph.	Maximum.			Minimum.			Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.		Mag.	Time.		Mag.	
											H.	M.		H.	M.		
12	12	12	13	9	5	6	8	11	8·2	5·5	2	55	16	11	30	2	1
13	14	12	11	10	9	7	4	3	7·5	5·2	16	45	18	10	35	3	2
14	12	10	7	6	5	6	4	4	6·8	4·6	15	15	18	7	32	2	3
11	10	8	6	6	6	4	5	5	7·0	4·4	14	50	14	10	20	2	4
13	17	10	13	13	9	8	7	3	8·3	5·9	16	30	22	7	12	2	5
15	16	15	11	7	7	6	5	5	8·5	5·9	16	15	21	0	0	3	6
13	11	11	10	8	6	4	3	3	6·3	4·3	15	15	17	11	30	2	7
13	15	14	9	8	8	8	11	7	7·8	5·5	16	40	19	6	10	2	8
12	14	11	9	7	7	5	5	3	7·9	5·3	16	15	19	22	0	3	9
21	20	18	18	18	15	11	8	11	9·8	7·0	15	45	27	4	5	2	10
21	22	19	21	19	13	12	13	13	14·8	10·5	15	55	29	9	35	3	11
23	23	24	22	19	19	15	9	9	15·3	11·1	16	45	30	8	28	4	12
20	18	17	18	17	15	8	8	9	12·6	8·7	15	55	28	7	30	4	13
14	14	14	14	15	10	6	5	7	12·2	8·7	14	15	22	0	45	3	14
16	15	15	13	11	7	4	4	6	10·2	6·9	12	45	22	7	58	2	15
16	16	16	17	15	8	6	7	9	10·5	7·2	15	12	21	9	15	1	16
15	15	15	13	10	9	6	3	6	9·0	6·2	15	10	21	10	50	1	17
14	15	13	12	8	7	5	4	5	8·9	6·4	13	50	20	9	45	2	18
14	14	13	11	8	8	5	3	3	8·3	5·7	14	50	19	10	55	2	19
15	17	18	15	12	11	7	7	6	8·3	5·8	17	15	1	7	0	0	20
17	17	19	17	16	15	11	11	12	12·8	9·2	15	45	24	0	5	4	21
18	19	19	17	14	12	9	10	11	12·2	8·9	16	0	28	7	15	3	22
17	17	16	15	15	14	12	10	12	11·9	8·4	15	50	23	3	15	4	23
20	19	18	16	15	11	11	9	9	13·3	9·4	16	12	27	6	50	4	24
19	19	16	15	15	11	8	15	15	13·0	9·1	13	8	25	8	15	3	25
14	14	12	12	12	10	8	6	6	10·6	7·4	15	55	19	10	25	1	26
15	13	11	9	8	5	9	13	15	10·5	7·5	23	32	19	9	45	1	27
16	14	14	10	8	8	12	15	12	9·8	6·8	22	3	20	9	45	1	28
15	15	17	16	15	14	16	18	15	11·6	8·3	17	25	24	7	35	0	29
19	17	16	17	14	11	8	6	9	11·2	8·0	14	10	25	10	45	3	30
17	17	15	17	17	15	11	13	8	13·1	9·5	2	48	26	9	45	0	31
15·9	15·5	14·8	13·7	12·1	10·0	8·2	8·0	8·1	10·3	7·2							Mean.

APRIL.

15	14	14	15	15	12	7	5	7	12·7	8·9	4	12	21	21	45	3	1
14	14	14	10	7	7	8	6	9	8·8	6·1	14	15	22	9	52	0	2
11	10	7	3	2	2	7	7	7	12·0	8·3	5	45	25	20	15	1	3
13	12	12	8	6	4	3	4	11	8·4	6·0	15	15	18	9	20	2	4
13	13	12	11	10	9	7	7	5	8·0	5·4	16	15	17	6	40	1	5
15	13	13	13	13	8	7	9	11	8·3	5·9	15	15	19	10	10	1	6
17	16	16	18	17	16	13	13	10	11·6	8·3	18	30	25	9	15	1	7
18	16	16	13	14	12	10	11	11	10·7	7·6	15	32	24	7	35	2	8
16	16	17	17	14	12	13	13	15	12·5	9·0	14	10	23	7	5	3	9
16	15	15	15	8	6	6	5	4	11·2	8·0	2	15	22	7	42	3	10
12	10	8	4	3	6	6	5	5	10·3	6·9	10	12	20	19	30	2	11
12	11	9	7	4	5	3	3	2	9·1	6·3	7	54	18	22	15	1	12
11	12	11	5	3	3	7	7	6	7·8	4·4	11	54	19	7	30	2	13
14	12	11	11	11	8	4	2	2	9·5	5·8	15	25	19	23	30	2	14
8	9	10	8	8	9	9	10	10	7·5	4·0	16	40	16	0	18	2	15
15	12	11	12	12	12	12	13	13	12·1	8·1	14	45	22	10	30	4	16
12	12	11	9	8	7	5	5	4	10·2	6·6	11	45	20	22	20	3	17
16	16	15	14	12	11	9	8	8	9·0	6·3	16	25	20	10	35	1	18
17	17	16	14	11	9	10	10	10	11·2	8·0	15	10	24	7	0	3	19
16	15	14	14	11	10	8	8	8	9·7	7·0	16	25	21	6	45	4	20
15	15	15	14	13	13	10	9	8	10·0	7·3	15	52	22	7	50	1	21
19	17	17	15	13	9	9	6	6	10·5	7·7	15	55	26	8	30	3	22
18	18	18	17	13	12	12	9	5	12·0	8·8	15	28	25	6	48	4	23
16	17	14	11	5	4	4	3	1	10·6	8·3	16	32	22	22	45	1	24
13	13	12	10	6	5	5	3	1	7·8	5·8	13	50	20	22	50	1	25
15	14	14	11	7	8	10	6	4	8·3	6·0	16	50	20	10	10	2	26
18	20	18	17	18	16	18	16	13	10·7	7·8	16	20	27	5	50	1	27
21	21	18	18	17	13	15	16	12	13·0	9·5	14	45	28	3	30	2	28
21	21	20	17	12	10	13	13	15	13·4	9·7	13	1	28	9	28	1	29
22	20	19	16	10	11	8	12	13	12·6	8·9	15	35	30	8	56	1	30
15·3	14·7	13·9	12·2	10·1	9·0	8·6	8·1	7·9	10·3	7·2							Mean.

WIND VELOCITY, 1932.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	13	13	13	11	13	13	10	10	8	9	10	13	14	13	15
2	11	13	6	6	7	7	6	7	7	6	8	13	14	14	16
3	11	12	9	6	6	7	5	4	5	8	12	11	13	14	14
4	10	9	7	9	4	5	5	4	5	5	5	8	10	11	12
5	5	5	5	5	8	9	8	6	6	7	8	8	10	12	11
6	5	5	5	5	4	3	3	5	8	9	13	12	14	14	14
7	7	7	7	3	2	1	3	5	6	8	10	11	14	14	15
8	6	5	5	5	7	5	3	1	4	6	8	9	12	14	16
9	10	9	9	10	10	6	3	5	7	5	5	8	9	11	11
10	5	4	3	4	5	5	5	6	7	9	10	11	11	11	13
11	5	5	6	7	6	5	3	4	5	3	8	11	13	13	16
12	16	12	6	5	7	8	8	1	3	6	11	13	14	16	16
13	17	16	17	12	8	4	3	11	3	2	3	11	12	14	14
14	10	7	4	5	5	5	3	4	5	5	9	10	11	12	14
15	4	3	2	1	1	2	9	10	9	7	9	12	13	13	14
16	7	5	5	5	3	5	3	2	3	6	8	8	11	13	15
17	5	1	1	2	3	3	3	4	6	8	9	11	12	14	17
18	15	12	10	8	10	7	7	8	8	9	11	12	14	14	16
19	11	13	12	11	15	12	7	7	4	4	6	9	9	11	13
20	8	5	15	5	7	10	11	6	5	6	9	9	8	11	10
21	8	9	9	7	6	4	4	3	5	6	8	9	12	14	16
22	7	3	3	4	17	18	16	12	12	14	11	11	11	14	15
23	9	6	9	12	10	12	14	15	17	17	19	19	19	15	15
24	17	17	15	12	12	13	11	9	10	10	11	9	9	11	11
25	9	11	10	10	11	11	10	8	9	11	12	11	10	10	10
26	12	11	11	10	11	10	11	10	10	11	12	11	11	11	11
27	9	8	10	9	9	10	10	10	9	8	9	10	11	10	11
28	8	7	7	7	8	8	8	8	8	8	9	11	11	12	12
29	7	6	7	6	7	8	8	7	8	8	7	9	9	11	11
30	8	7	9	9	8	8	8	8	9	9	8	7	3	11	11
31	9	8	9	8	9	8	7	7	7	7	9	12	11	11	12
Mean ..	9·2	8·2	7·9	7·1	7·7	7·5	6·9	6·7	7·0	7·6	9·2	10·6	11·6	12·5	13·5

JUNE.

1	9	7	8	6	5	4	2	2	4	4	4	6	7	9	9
2	9	9	8	7	7	7	6	5	7	8	10	9	9	9	10
3	7	6	9	9	7	11	10	8	10	8	9	12	8	8	4
4	14	11	9	9	8	9	8	9	9	12	7	9	8	3	8
5	8	8	7	6	7	10	6	5	5	10	8	6	8	9	9
6	7	5	6	6	6	5	6	6	7	7	8	8	10	11	11
7	7	6	5	5	4	3	5	6	5	7	8	10	11	11	11
8	8	8	10	11	11	10	9	10	9	11	13	12	11	11	12
9	11	11	12	10	11	11	11	10	10	11	11	11	13	11	18
10	12	10	10	10	10	9	10	10	10	10	10	10	10	11	10
11	8	6	8	8	9	9	9	9	9	9	9	10	11	12	12
12	11	12	12	12	12	14	14	14	13	13	12	12	13	14	14
13	13	12	12	14	14	13	12	13	12	11	12	11	13	15	11
14	14	14	13	13	12	11	14	14	11	11	11	10	12	12	12
15	10	10	11	11	10	11	10	10	11	9	11	10	11	12	11
16	8	9	8	9	9	10	10	10	14	13	14	16	13	12	13
17	13	15	14	13	12	11	9	6	6	5	5	5	9	12	12
18	6	4	6	9	9	8	5	6	9	9	8	15	9	10	12
19	16	13	6	6	7	8	16	12	7	5	4	5	8	10	12
20	12	10	12	12	11	10	11	10	9	9	16	11	11	16	16
21	12	12	12	12	11	11	13	14	14	14	19	12	11	13	12
22	14	15	14	12	12	14	13	14	18	11	15	10	13	17	15
23	15	16	8	11	10	14	15	10	13	16	21	22	19	21	23
24	17	15	17	15	16	14	15	8	5	10	11	15	13	11	7
25	12	14	10	8	13	11	8	13	16	18	18	18	16	16	15
26	13	9	13	12	13	14	14	12	11	12	8	10	10	8	7
27	11	13	8	6	8	12	10	13	7	3	5	8	17	14	12
28	5	7	9	9	10	11	9	10	8	11	12	12	12	12	12
29	13	13	14	11	9	14	13	13	14	15	15	14	15	15	13
30	15	12	13	13	15	17	15	13	13	16	11	14	15	15	13
Mean ..	11·0	10·4	10·1	9·8	9·9	10·5	10·3	9·8	9·9	10·3	10·8	11·1	11·5	12·0	11·6

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's Anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
15	15	15	11	9	9	12	12	11	12·0	8·6	17 4	21	10 20	4	1
17	16	15	14	10	8	7	7	10	10·2	7·2	15 42	23	10 15	1	2
15	12	11	13	13	11	8	9	9	9·9	7·5	14 15	19	8 58	1	3
13	14	14	13	11	11	7	5	5	8·4	5·9	17 10	19	10 15	1	4
12	12	9	9	7	7	6	6	5	7·7	5·1	14 2	17	7 15	2	5
14	13	14	12	10	8	7	7	7	8·8	6·4	12 50	18	6 50	0	6
16	16	16	14	12	9	8	8	8	9·2	6·7	17 28	23	7 54	0	7
17	15	13	12	11	11	10	10	10	9·0	6·6	15 15	21	7 40	0	8
11	11	11	11	11	10	8	8	6	8·5	6·0	13 35	18	10 30	0	9
14	15	14	10	0	8	7	6	6	8·3	6.0	15 1	19	2 55	0	10
15	15	15	14	13	12	14	14	16	9·9	7·3	14 57	22	6 48	0	11
17	17	16	15	13	8	4	5	14	10·5	7·8	13 48	24	7 40	0	12
15	15	14	11	4	6	8	7	8	9·8	7·0	0 18	25	10 30	0	13
14	14	9	9	11	12	12	8	5	8·5	5·5	14 28	20	8 50	0	14
15	14	12	11	9	6	5	9	10	8·3	6·2	15 30	19	3 15	1	15
16	16	14	10	8	8	9	9	5	8·1	5·9	16 45	20	5 45	0	16
18	16	15	12	7	9	17	11	16	9·2	6·7	15 32	24	5 40	0	17
17	9	5	9	15	11	1	1	6	9·8	7·1	15 12	22	22 3	0	18
15	13	15	9	4	6	7	7	5	9·4	6.7	17 20	22	8 32	0	19
10	15	7	5	9	4	6	10	11	8·4	5·6	16 28	24	7 50	0	20
17	25	15	13	15	13	8	7	6	10·0	7·3	16 54	62	7 40	1	21
10	8	10	12	14	20	21	22	18	12·6	8·7	20 15	28	1 20	2	22
14	11	11	11	12	14	14	15	15	13·5	9·4	12 15	25	1 20	3	23
9	9	9	9	8	9	9	10	10	10.8	6·3	1 10	22	7 50	4	24
11	12	12	12	12	12	12	12	12	10·8	5·9	21 25	20	8 28	3	25
11	10	9	9	10	10	9	9	10	10·4	6·0	13 40	19	9 25	4	26
11	11	10	8	5	7	9	8	9	9·2	6·6	11 3	15	20 20	2	27
11	10	9	8	7	6	5	6	8	8·4	6·0	13 45	17	20 45	3	28
11	11	11	8	5	5	6	7	7	7·9	5·0	15 45	15	1 55	3	29
11	10	10	8	7	8	8	9	9	8·6	5·3	13 40	15	9 30	4	30
12	11	10	9	9	8	9	8	10	9·2	6·7	14 25	16	8 30	3	31
13·7	13·3	11·9	10·7	9·7	9·2	8·8	8·8	9·3	9·5	6·6					Mean.

JUNE.

9	8	8	9	9	8	7	7	8	6·6	3·9	18 52	16	7 45	0	1
11	8	9	9	9	9	8	8	8	8·3	4·7	15 40	18	7 40	1	2
8	6	10	11	12	11	10	9	15	9·1	5·5	15 45	32	4 10	1	3
10	10	8	8	8	9	9	11	10	9·0	6·1	12 1	25	13 15	2	4
10	10	8	7	6	5	7	6	7	7·4	5·0	5 50	24	11 42	2	5
10	8	8	8	7	8	8	7	6	7·5	4·7	13 45	16	5 10	4	6
11	11	10	10	9	6	7	7	7	7·6	5·1	13 30	17	8 5	2	7
11	11	11	11	11	11	11	11	13	10·7	7·5	11 15	18	0 20	5	8
12	12	11	11	11	12	11	11	12	11·2	6·9	13 45	18	11 15	6	9
10	9	10	8	9	8	8	8	8	9·6	5·2	14 28	17	9 8	3	10
10	9	10	12	11	12	12	10	12	9·8	5·7	12 32	18	9 5	3	11
14	14	13	14	14	13	13	13	11	13·0	9·3	18 35	19	1 40	7	12
13	11	13	11	13	14	14	14	13	12·7	7·4	13 20	28	9 50	6	13
12	11	9	11	10	9	10	9	11	11·5	6·3	5 4	21	21 47	5	14
10	11	9	11	11	11	11	11	10	10·5	6·1	21 40	21	21 48	3	15
12	7	4	14	17	18	13	12	13	11·6	8·3	8 50	25	16 50	1	16
12	11	10	8	8	6	5	6	8	9·1	6·7	1 14	18	10 40	2	17
12	11	10	9	8	10	13	6	6	8·7	6·1	11 28	25	3 8	2	18
14	15	10	16	14	10	10	11	11	10·3	7·4	18 40	25	10 30	1	19
16	15	13	14	12	11	11	11	11	12·1	9·0	13 50	24	12 7	4	20
13	14	13	14	13	12	11	11	11	12·7	7·5	9 33	38	15 20	6	21
20	19	19	21	25	12	13	16	15	15·3	11·3	8 20	34	9 55	4	22
24	23	17	11	12	8	12	7	7	14·8	11·4	16 25	32	20 8	3	23
20	13	6	7	15	13	7	11	12	12·2	9·0	15 46	31	8 35	4	24
13	16	13	12	6	7	12	13	9	12·8	8·6	11 55	25	6 26	3	25
11	8	7	9	10	11	10	14	13	10·8	7·2	15 4	19	10 52	4	26
9	9	5	4	4	5	6	6	11	8·6	5·0	12 20	31	9 30	3	27
12	11	12	11	13	12	11	13	9	10·5	6·5	22 45	20	0 20	4	28
14	14	12	12	12	12	12	12	12	13·0	7·2	6 32	21	4 0	8	29
13	13	14	13	13	10	12	12	11	13·4	7·3	19 28	32	20 5	6	30
12·5	11·6	10·4	10·9	11·1	10·1	10·1	10·1	10·3	10·7	6·9					Mean.

WIND VELOCITY, 1932.

JULY.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

(IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	13	12	11	12	8	8	9	10	8	9	10	11	11	11	12
2	10	7	8	8	10	10	9	9	8	7	9	10	9	9	10
3	4	4	4	4	5	4	7	7	4	4	4	5	6	5	5
4	3	3	3	3	6	7	5	5	4	3	4	27	15	10	5
5	6	4	3	3	7	13	6	8	8	4	6	6	7	8	10
6	8	6	7	10	11	10	7	13	14	11	13	19	25	23	16
7	20	14	13	16	18	14	18	17	17	14	19	20	18	17	14
8	18	17	19	19	17	17	17	11	9	9	14	8	10	6	13
9	13	9	11	11	13	12	12	15	9	12	15	15	15	12	16
10	19	21	16	21	19	12	11	7	11	15	13	18	19	18	18
11	19	17	20	24	18	20	21	21	19	19	19	19	18	18	14
12	19	14	18	19	19	20	17	17	18	18	19	21	19	20	16
13	18	18	18	19	18	20	17	18	17	15	18	17	17	16	16
14	19	24	18	17	23	20	20	20	21	20	24	22	22	22	22
15	25	26	18	21	21	16	20	19	20	19	21	20	21	22	20
16	20	18	18	20	19	18	18	19	19	19	19	18	17	19	19
17	17	17	18	19	17	16	19	19	17	18	17	17	17	18	18
18	19	16	17	19	20	20	19	19	17	17	19	20	19	20	22
19	19	20	20	19	17	19	18	19	19	19	19	19	19	18	17
20	17	18	18	17	17	17	17	17	14	15	14	17	18	17	17
21	16	17	17	13	17	16	17	17	18	16	16	14	15	15	14
22	18	19	19	19	19	16	17	15	17	17	19	17	17	18	18
23	17	18	18	18	18	16	16	18	17	21	19	18	19	20	20
24	17	18	17	17	17	18	18	17	17	18	18	19	19	21	20
25	19	18	19	23	18	19	19	19	20	18	15	15	14	14	15
26	15	19	16	15	18	10	17	18	12	11	11	15	13	15	17
27	18	18	18	17	17	17	17	16	16	17	17	17	16	15	14
28	17	16	17	20	17	17	17	20	18	17	16	17	17	17	16
29	17	16	16	16	17	17	15	14	16	15	17	16	16	16	16
30	19	18	18	17	18	19	18	18	18	19	18	20	20	20	21
31	19	19	19	17	19	18	19	22	17	17	19	20	18	18	18
Mean . .	16·1	15·5	15·2	15·9	16·1	15·4	15·4	15·6	14·8	14·6	15·5	16·7	16·3	16·1	15·8

AUGUST.

1	16	16	16	17	16	18	17	18	17	18	17	16	16	17	18
2	15	15	15	14	14	13	14	15	16	16	15	18	18	16	17
3	17	18	18	14	16	18	18	17	16	20	15	14	16	15	14
4	17	16	15	17	10	14	16	15	14	17	16	19	15	17	14
5	17	17	16	16	16	17	16	16	17	17	15	16	17	16	16
6	18	18	20	20	19	18	13	16	19	19	17	17	18	18	22
7	19	19	17	16	16	17	16	19	16	17	16	17	20	17	17
8	13	17	15	18	16	22	13	17	18	17	17	15	15	15	15
9	14	15	18	19	18	18	18	17	19	18	15	15	16	18	17
10	17	13	18	19	18	17	16	14	17	15	21	15	11	14	15
11	15	16	16	13	14	14	12	12	12	15	9	10	11	11	10
12	10	9	9	15	12	11	11	10	7	10	9	11	9	10	11
13	8	10	10	11	10	11	9	9	8	8	11	10	9	10	15
14	10	11	11	11	11	10	11	11	13	14	14	12	10	12	11
15	8	11	10	9	8	8	8	12	9	7	6	7	7	8	10
16	7	7	7	11	11	11	11	10	10	12	10	9	8	8	11
17	7	8	11	11	11	9	9	7	7	8	8	13	12	12	13
18	7	7	6	6	6	6	3	4	3	5	5	8	7	6	8
19	7	7	5	5	5	3	1	0	0	2	6	7	7	8	8
20	2	2	3	4	5	4	4	4	4	3	4	8	9	9	9
21	4	4	4	6	5	5	6	7	6	8	9	12	11	11	11
22	5	5	3	3	3	3	3	3	7	8	8	9	11	13	13
23	7	5	3	3	3	3	2	3	5	5	5	8	10	14	15
24	6	5	7	7	5	5	5	5	4	3	6	8	10	14	13
25	7	5	5	5	5	5	5	5	5	5	7	8	8	9	10
26	4	3	3	2	2	2	3	3	3	3	4	5	6	7	9
27	5	5	5	5	3	3	3	3	6	4	2	7	8	8	11
28	3	3	3	3	4	4	3	4	4	4	7	10	14	17	18
29	6	5	4	4	4	4	3	5	6	6	9	10	11	12	12
30	11	9	7	6	7	7	1	3	3	3	2	3	8	10	10
31	6	6	6	6	6	6	4	4	3	2	3	4	7	8	7
Mean .	9·9	9·9	9·9	10·2	9·6	9·9	8·8	9·3	9·5	10·0	9·9	11·0	11·5	12·3	12·9

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's Anemograph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
11	12	10	10	9	9	8	8	9	10·0	4·3	16 50	19	5 50	6	1
10	10	10	7	6	5	6	4	4	8.1	5·0	15 25	14	22 10	3	2
6	6	7	5	4	4	3	3	3	4·7	2·3	7 08	11	11 55	3	3
3	1	0	0	5	5	4	5	7	5·5	3·2	11 15	33	16 32	0	4
11	10	9	9	9	8	5	9	8	7·4	4·7	20 40	20	9 35	2	5
16	14	15	15	17	13	15	9	13	13·3	7·8	12 15	38	6 15	3	6
15	16	17	18	16	15	16	15	16	16·4	9·8	10 45	37	9 15	5	7
11	10	13	12	11	12	13	11	11	12·8	7·7	2 05	32	11 12	3	8
15	14	16	12	14	16	19	17	18	13·8	10·5	12 35	27	9 00	3	9
17	21	25	19	20	21	18	20	16	17·3	11·0	22 10	43	7 44	4	10
17	18	18	18	19	16	16	17	17	18·4	10·6	3 08	52	14 45	8	11
18	18	17	16	17	16	17	20	15	17·8	10·0	11 15	43	23 13	1	12
18	17	16	16	18	17	24	23	16	17·8	10·4	9 28	44	9 45	10	13
23	24	22	22	21	22	22	21	23	21·4	12·9	23 12	48	0 07	10	14
20	21	21	20	18	18	19	20	17	20·1	11·8	1 45	52	6 10	8	15
17	18	18	17	17	17	16	18	18	18·2	9·7	2 .6	37	7 30	12	16
17	16	16	17	17	15	17	18	18	17·3	10·5	3 59	32	6 12	11	17
22	20	19	19	20	19	20	20	20	19·3	11·7	14 45	34	16 10	11	18
18	17	17	17	17	15	17	17	17	18·0	9·6	4 15	30	20 20	10	19
16	17	15	16	16	17	17	18	18	16·7	8·5	1 05	26	9 55	8	20
15	15	17	8	6	17	19	19	19	15·5	8·7	21 58	32	18 45	6	21
16	19	16	17	15	17	14	16	17	17·2	10·5	8 25	30	21 05	9	22
18	18	16	17	17	18	18	17	17	17·9	10·5	9 05	38	18 03	12	23
20	19	19	18	18	18	18	15	21	18·2	10·4	23 28	46	8 13	12	24
14	14	17	17	16	12	12	13	15	16·5	10·0	2 01	47	12 50	10	25
18	18	18	17	17	18	21	18	19	16·1	9·5	22 45	42	9 57	7	26
16	13	14	20	17	17	18	17	17	16·6	9·5	20 48	41	14 13	7	27
17	16	17	16	17	18	15	15	16	16·9	9·5	3 40	40	22 13	9	28
17	17	16	17	18	17	17	16	18	16·4	9·3	11 20	36	11 40	9	29
19	20	20	20	19	18	18	20	20	19·0	10·6	18 15	55	0 03	11	30
18	16	17	18	18	18	18	16	16	18·1	10.5	7 43	41	0 50	12	31
15·8	15·6	15·7	15·2	15·1	15·1	15·5	15·3	15·5	15·6	9·1					Mean.

AUGUST.

18	17	17	18	18	14	14	15	14	16·6	8·7	15 45	30	21 50	10	1
18	18	15	16	17	16	17	18	18	16·0	8·2	12 48	34	1 28	10	2
13	16	18	14	15	18	18	16	15	16·2	9·8	2 29	35	15 28	7	3
16	13	15	15	13	12	14	18	16	15·2	10·0	11 28	33	4 40	5	4
15	17	16	16	17	17	16	17	15	16·3	9·5	14 59	37	2 55	8	5
20	16	20	20	19	18	19	19	20	18·5	11·4	5 55	39	7 0	5	6
19	21	18	18	17	18	15	17	18	17·5	11·3	6 25	43	6 56	7	7
14	16	15	13	12	15	16	15	17	15·7	9·0	5 30	36	19 50	7	8
16	16	17	15	17	17	17	15	17	16·7	9·6	8 15	35	1 0	6	9
13	11	14	14	15	13	13	15	16	15·2	8·2	8 47	34	12 15	5	10
9	11	11	11	11	11	11	10	11	11·9	5·8	9 35	23	13 13	4	11
11	11	11	8	8	6	5	6	6	9·4	4·3	3 15	27	21 25	3	12
9	9	11	10	11	10	10	10	8	9·9	5·6	13 59	23	9 40	2	13
10	10	11	10	11	9	7	7	7	10·6	6·3	10 5	30	13 28	4	14
11	12	12	9	9	9	9	7	7	8·9	4·8	7 28	23	11 15	1	15
10	11	12	7	9	9	6	6	7	9.2	6·6	6 13	18	11 48	3	16
12	12	11	10	8	8	6	6	7	9·4	7·3	11 45	17	8 15	5	17
10	7	6	5	6	6	8	9	9	6·4	4·6	15 48	15	7 46	0	18
10	16	13	8	9	9	6	4	3	6·2	4·9	16 45	22	6 45	0	19
10	13	12	13	12	11	9	9	7	7·1	5·2	16 10	17	10 45	2	20
9	10	10	9	9	8	7	6	5	7·6	5·4	11 12	14	7 55	2	21
14	15	12	13	13	10	8	8	7	8·2	6·2	16 20	21	7 25	2	22
16	13	13	13	11	11	9	7	8	8·0	5·9	16 5	23	6 10	2	23
16	15	13	13	12	10	7	8	6	8·5	6·3	16 30	19	10 30	2	24
11	13	12	11	10	7	5	4	4	7·1	5·7	16 45	17	22 30	2	25
9	10	10	7	7	6	6	5	5	5·2	4·2	16 28	12	10 35	0	26
12	13	12	11	9	9	7	6	4	6·7	5·3	17 20	17	10 50	0	27
19	18	18	16	12	9	7	7	6	8·9	6·7	15 20	25	6 15	2	28
12	15	11	6	9	10	10	9	11	8·1	6·4	16 50	29	6 15	1	29
10	8	7	6	6	10	7	5	5	6·4	4·8	20 22	15	10 50	0	30
9	11	9	10	16	12	13	9	9	7·3	5·2	19 28	22	9 50	0	31
12·9	13·4	13·0	11·8	11·9	11·2	10·4	10·1	10·0	10·8	6·9					Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN MILES PER HOUR.)

Date.	Hours.														
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	6	4	4	5	4	3	5	6	2	3	3	3	3	7	8
2	6	8	8	8	12	8	4	3	4	4	5	8	7	6	4
3	5	8	8	6	5	4	3	6	7	6	6	5	5	9	11
4	6	5	5	5	7	15	16	22	18	8	6	5	4	5	5
5	16	18	20	21	22	24	19	16	15	16	15	16	18	14	14
6	13	15	16	15	17	14	12	13	12	13	14	13	17	14	14
7	14	14	13	13	14	11	13	11	11	12	11	13	16	16	17
8	10	14	10	10	16	19	9	10	14	13	14	13	12	12	11
9	10	11	8	11	12	11	11	10	5	6	7	9	13	12	13
10	7	5	7	8	10	10	11	8	9	10	13	13	13	13	12
11	14	14	12	10	11	13	10	12	11	12	12	13	12	13	13
12	11	11	11	9	10	12	9	9	11	11	11	11	11	12	11
13	10	9	9	11	8	8	7	6	8	9	9	9	9	12	11
14	10	8	8	7	5	5	5	5	4	4	2	5	8	9	8
15	5	6	6	7	7	5	4	4	4	3	3	3	8	8	10
16	4	5	5	8	8	6	7	8	7	8	5	7	8	4	5
17	8	8	9	10	9	10	8	8	12	9	8	10	11	9	11
18	10	11	13	6	5	6	3	5	9	11	10	12	11	13	15
19	10	11	10	10	11	10	10	10	10	9	10	12	11	11	9
20	5	4	4	4	3	8	8	7	7	6	4	5	6	7	7
21	4	4	3	5	8	8	9	9	6	4	3	6	8	7	8
22	7	8	8	9	9	8	8	6	8	7	5	4	5	7	8
23	10	8	8	7	7	6	8	11	9	7	5	7	9	10	11
24	5	5	6	9	13	10	13	13	13	12	13	14	14	14	13
25	12	9	11	11	12	12	11	12	12	11	11	9	12	12	15
26	11	11	12	12	10	10	9	13	11	11	10	8	8	8	8
27	1	3	3	2	3	6	5	2	1	1	4	5	8	11	11
28	4	4	5	6	4	5	5	7	6	6	8	10	10	12	14
29	4	5	6	6	6	7	8	7	7	6	4	4	6	6	9
30	8	10	12	12	11	10	5	1	3	5	8	7	6	7	9
Mean . .	8·2	8·5	8·7	8·8	9·3	9·5	8·5	8·7	8·5	8·1	8·0	8·6	9·6	10·0	10·5

OCTOBER.

1	3	8	12	8	6	6	4	4	4	3	5	6	7	9	10
2	7	6	6	6	5	5	4	6	6	7	7	10	10	13	13
3	4	5	5	6	5	5	7	6	5	5	6	8	9	10	12
4	5	3	3	3	3	3	3	4	3	1	5	9	11	12	12
5	6	4	6	7	7	5	3	6	6	5	6	9	10	11	12
6	3	2	2	4	6	6	5	7	4	3	4	5	8	8	10
7	5	6	7	7	7	7	7	6	7	7	5	6	9	10	12
8	16	14	12	8	5	5	5	6	5	6	6	7	5	5	10
9	7	6	4	4	4	4	2	5	6	5	5	7	9	10	12
10	8	7	9	9	9	9	8	8	12	11	9	7	6	6	3
11	5	6	6	8	9	6	6	3	4	3	3	3	5	5	7
12	8	8	7	12	14	12	11	10	7	5	4	3	8	10	10
13	3	4	5	7	8	10	10	10	8	9	7	7	8	7	7
14	5	4	4	5	5	5	5	5	7	6	4	5	5	9	12
15	11	13	13	11	10	9	7	5	5	6	3	3	8	10	12
16	9	5	6	11	10	8	8	11	9	6	5	6	8	9	11
17	9	9	10	7	8	8	9	8	8	5	6	5	5	9	9
18	10	14	12	12	12	7	7	9	8	8	6	3	4	6	7
19	12	9	11	10	9	6	9	10	7	7	5	4	5	7	9
20	17	26	9	7	6	4	2	5	9	8	7	8	7	9	11
21	6	11	9	9	12	10	9	12	9	6	3	5	8	9	10
22	3	4	3	3	2	5	6	6	8	6	3	5	6	6	8
23	6	5	7	6	4	7	15	14	12	7	6	6	5	5	5
24	8	8	9	10	10	11	11	11	8	7	4	5	5	6	8
25	2	5	7	8	6	9	10	7	9	5	7	7	5	8	11
26	6	4	3	3	3	6	7	6	6	7	9	9	10	12	13
27	8	12	8	3	3	7	7	3	3	3	6	5	6	5	5
28	5	4	6	3	4	6	3	4	7	7	8	7	6	6	9
29	5	5	11	15	19	12	8	3	3	6	7	7	7	7	9
30	5	8	11	12	14	16	19	19	15	10	7	5	7	9	10
31	3	7	6	7	9	7	11	13	12	7	4	4	6	8	9
Mean . .	6·8	7·5	7·4	7·5	7·5	7·3	7·4	7·5	7·2	6·0	5·5	6·0	7·0	8·3	9·6

SEPTEMBER. (Averages for periods of sixty minutes from full hour to full hour of local mean time.) (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's Anemo-graph.	Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
10	11	10	8	7	7	6	6	3	5·6	4·3	15 45	16	1 5	1	1
8	11	9	11	9	7	5	3	3	6·7	5·1	17 45	18	6 40	3	2
13	18	16	12	8	8	9	8	6	8·0	5·5	16 15	25	6 45	1	3
7	11	11	11	15	13	14	20	21	10·6	7·7	20 15	31	12 48	3	4
15	14	12	11	13	12	12	12	13	15·7	11·8	12 3	30	18 50	6	5
13	11	12	12	17	16	17	16	15	14·2	10·8	19 50	25	8 58	7	6
19	14	16	16	13	14	12	9	12	13·5	9·0	15 15	31	10 18	5	7
12	12	11	12	9	9	8	9	12	11·7	6·8	5 30	26	14 40	5	8
11	12	11	11	13	10	9	20	15	10·9	7 0	22 57	28	8 25	4	9
11	10	10	12	13	7	11	13	13	10·4	6·7	19 45	24	8 35	4	10
14	13	13	13	13	12	12	13	12	12·4	9·4	11 5	19	4 8	4	11
13	11	11	10	10	8	9	10	11	10·5	8·5	13 20	16	3 35	5	12
10	11	11	10	9	9	9	8	7	9·1	6·7	20 50	14	7 35	5	13
9	9	9	8	7	7	7	5	5	6·6	4·7	14 7	14	10 40	0	14
10	8	7	6	5	4	4	3	3	5·5	4·2	15 30	14	11 12	0	15
10	10	10	10	9	8	8	9	10	7·5	5·5	4 52	19	6 4	0	16
12	12	15	13	12	8	8	12	8	10·0	6·8	22 20	24	12 59	3	17
16	16	16	13	15	11	11	10	11	10·8	8·1	14 58	21	6 10	2	18
9	7	6	6	5	3	6	5	4	8·5	6·8	10 45	14	22 32	2	19
7	9	7	6	5	5	5	4	4	5·7	3·9	5 25	10	4 20	1	20
7	5	3	3	5	5	8	7	6	5·9	4·0	12 5	13	11 15	2	21
9	9	8	8	6	7	6	6	6	7·2	5·7	17 27	14	12 0	2	22
11	10	9	8	7	7	5	5	6	8·0	5·9	0 20	15	10 26	1	23
13	11	12	10	11	11	11	11	12	11.2	9·0	11 15	19	0 38	4	24
15	15	13	14	14	14	12	11	11	12·1	9·7	15 15	21	11 35	4	25
9	8	7	5	3	1	1	1	1	7·8	6·0	7 46	15	22 0	1	26
11	10	9	7	5	8	6	6	5	5·5	4·1	15 45	15	0 0	1	27
16	15	11	10	6	7	3	3	3	7·5	5·5	16 50	22	22 55	1	28
9	10	17	13	12	11	10	4	4	7·5	5 6	17 53	39	11 35	1	29
9	6	5	3	6	3	3	8	5	6·7	4·8	3 5	19	18 55	1	30
11·3	11·0	10·6	9·7	9·4	8·4	8·2	8·6	8·2	9·1	6·7					Mean.

OCTOBER.

10	9	8	8	8	7	7	6	7	6·9	5·1	2 15	14	6 55	1	1
13	11	8	8	7	7	5	1	2	7·2	4·5	14 12	19	22 0	1	2
12	13	10	9	7	6	5	5	5	7·0	5·1	16 30	16	10 5	1	3
13	12	12	12	11	9	6	5	6	6·9	4·7	14 3	18	8 50	1	4
10	10	4	6	8	9	6	5	6	7·0	4·9	14 10	17	10 10	1	5
7	3	5	8	14	11	8	11	9	6·4	4·5	19 55	18	10 47	1	6
11	10	6	8	5	5	4	3	7	7·0	5·0	18 15	21	10 50	0	7
12	11	7	3	4	4	7	6	6	7·3	5·0	0 55	30	18 30	1	8
11	14	18	9	11	11	6	6	7	7·6	5·4	17 10	32	6 50	0	9
3	3	7	7	5	5	5	5	7	7.0	4·4	8 15	16	16 30	1	10
11	10	10	11	10	9	6	5	6	6·5	4·3	18 20	15	8 45	2	11
9	9	10	9	9	8	7	6	4	8·3	6·3	4 45	16	9 40	2	12
6	6	6	4	4	6	5	4	5	6·5	4·5	6 28	13	19 00	1	13
12	12	12	10	12	7	3	3	7	6·8	4·6	19 15	18	7 28	1	14
14	16	14	16	13	6	2	4	4	9·0	6·7	18 28	22	7 0	1	15
11	10	7	6	6	7	8	11	8	8·2	5·7	14 15	16	18 10	2	16
9	8	6	5	4	5	10	8	11	7·5	5·3	22 10	19	20 2	2	17
9	8	7	6	5	4	3	1	9	7·4	5·1	2 48	17	22 15	1	18
10	11	9	8	8	10	9	6	5	8·2	6·1	15 50	15	10 35	2	19
12	10	8	10	14	6	5	3	6	8·7	6·1	0 55	48	6 20	1	20
9	8	7	6	8	11	6	5	3	8·0	5·5	19 50	30	10 55	1	21
7	7	5	5	6	7	7	6	8	5·5	3·6	23 50	13	23 45	1	22
4	5	3	4	4	4	7	9	9	6·6	4·5	7 10	21	0 28	1	23
8	6	4	3	3	3	3	3	2	6·5	4·7	7 10	13	17 45	2	24
12	12	11	17	10	9	11	9	7	8·5	6·2	18 50	38	1 15	1	25
14	13	12	11	6	5	4	2	21	8·0	5·5	23 20	37	1 50	2	26
7	8	7	6	6	5	5	4	5	5·7	3·4	1 10	17	4 15	2	27
11	12	12	11	11	12	10	5	6	7·3	4·6	15 30	15	7 47	2	28
12	14	16	15	11	6	3	2	4	8·6	5·7	4 3	24	7 6	2	29
11	12	13	13	12	10	7	6	4	10·6	7·5	6 45	21	0 5	2	30
9	10	12	13	12	9	7	6	7	8·3	5·1	8 4	17	11 15	2	31
10·0	9·8	8·9	8·6	8·2	7·2	6·0	5·2	6·5	7·5	5·1					Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN MILES PER HOUR.)

Date.	Hours.															
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15	
1	7	8	7	9	9	9	9	7	8	7	6	6	8	9	8	
2	5	7	10	7	8	12	8	7	8	5	7	5	5	7	10	
3	5	5	7	10	9	5	5	7	7	7	7	3	3	6	10	
4	4	4	4	6	7	8	9	5	3	6	7	5	6	10	12	
5	6	5	7	7	7	7	5	7	6	6	5	5	7	7	7	
6	5	9	6	4	6	8	11	9	12	10	11	10	7	6	7	
7	9	10	10	10	14	14	15	15	13	12	11	12	8	6	8	
8	5	7	9	8	6	7	10	10	12	12	8	5	5	6	7	
9	5	6	7	5	9	10	11	11	9	9	7	5	5	5	5	
10	5	5	6	8	9	10	8	8	8	9	7	8	8	9	11	
11	9	7	7	11	12	11	11	12	12	13	10	10	9	9	11	
12	8	7	7	8	9	10	7	8	9	10	7	8	7	7	8	
13	7	8	11	11	11	11	10	9	8	9	9	8	7	6	9	
14	7	8	9	9	9	9	9	10	11	9	6	7	5	5	7	
15	5	5	6	9	9	10	8	7	8	7	8	7	7	8	9	
16	3	6	6	7	9	10	9	9	8	7	6	4	5	6	8	
17	3	3	5	6	7	10	10	7	7	7	5	4	8	8	9	
18	7	7	6	7	8	7	4	5	6	3	3	7	9	9	10	
19	5	3	5	5	6	7	7	6	5	5	7	7	7	8	10	
20	5	6	5	5	3	5	7	5	6	8	6	4	8	10	10	
21	5	8	6	4	6	6	8	9	8	9	7	5	5	6	8	
22	5	10	9	9	7	8	10	10	11	10	8	8	7	7	8	
23	8	11	9	9	11	8	9	10	11	10	13	8	8	7	7	
24	6	5	7	9	11	10	12	13	13	13	11	9	9	8	8	
25	4	8	9	10	11	13	11	12	14	12	12	12	9	7	6	
26	7	9	11	11	8	7	10	8	8	8	7	7	6	11	13	
27	5	6	7	8	8	9	7	5	7	8	5	5	5	7	9	
28	6	4	4	6	9	9	10	10	10	8	8	5	5	6	13	
29	5	8	8	9	10	6	9	9	11	7	3	4	7	7	10	
30	5	4	3	4	4	6	3	5	4	4	4	4	6	7	9	
Mean . .	5·7	6·6	7·1	7·7	8·4	8·7	8·7	8·5	8·8	8·3	7·4	6·6	6·7	7·3	8·9	

DECEMBER.

1	6	5	6	8	7	6	7	8	6	8	9	7	5	5	6	
2	5	4	3	5	7	8	11	11	10	10	8	5	5	5	9	
3	4	7	8	9	8	8	9	9	9	7	6	5	5	8	10	
4	8	7	8	9	6	7	6	4	4	7	6	5	9	9	13	
5	6	6	7	9	9	8	9	7	7	8	6	6	7	9	12	
6	9	7	8	7	4	5	7	7	7	6	6	12	11	12	11	
7	7	8	8	5	5	4	4	6	5	5	4	4	7	9	9	
8	5	5	2	2	6	6	5	4	5	6	6	5	9	10	12	
9	4	4	5	6	7	7	7	9	9	8	5	5	6	8	9	
10	5	7	6	8	7	8	7	7	9	8	6	5	5	5	8	
11	6	7	5	6	10	11	10	9	8	6	6	4	4	7	10	
12	3	5	7	9	9	10	10	11	11	10	8	5	5	6	7	
13	4	6	10	10	9	11	8	9	8	6	4	4	4	6	9	
14	7	4	5	6	6	9	8	10	10	11	7	5	5	5	9	
15	7	7	6	7	7	8	12	13	13	11	7	6	5	5	7	
16	5	3	4	6	7	11	12	11	11	8	7	6	5	5	7	
17	5	6	8	8	9	11	11	11	12	11	12	12	10	8	9	
18	10	12	12	11	11	12	13	12	14	11	9	6	5	6	11	
19	8	7	7	11	11	11	10	8	6	7	7	5	5	9	12	
20	9	9	9	10	12	13	12	12	12	10	9	7	6	8	7	
21	7	6	7	8	9	10	10	11	10	9	9	6	6	5	5	
22	9	8	9	9	9	11	11	11	11	8	6	5	5	7	8	
23	7	7	8	8	8	7	7	6	6	5	5	5	6	7	8	
24	4	6	7	7	7	8	9	10	7	7	6	6	10	11	7	
25	6	6	7	6	9	10	10	9	6	9	12	10	7	14	14	
26	7	7	7	7	8	9	8	9	7	7	7	11	12	12	12	
27	8	7	7	6	8	7	7	5	7	8	9	6	9	14	14	
28	7	7	6	5	6	6	7	7	6	5	10	13	13	13	15	
29	6	7	7	7	9	9	11	12	11	8	15	16	16	18	16	
30	8	9	10	10	9	9	9	7	8	9	9	8	11	14	17	
31	5	8	10	11	10	6	8	9	9	10	8	6	5	7	8	
Mean . .	6·4	6·6	7·1	7·6	8·0	8·6	8·9	8·8	8·5	8·0	7·5	6·8	7·2	8·6	10·0	

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN MILES PER HOUR.)

Hours.									Mean.	Mean by R. Beckley's Anemo-graph.	Maximum.			Minimum.			Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			Time.		Mag.	Time.		Mag.	
											H.	M.		H.	M.		
5	6	9	13	12	9	8	5	6	7·9	5·0	18	10	18	10	13	3	1
10	11	11	11	9	9	8	7	5	8·0	5·1	17	25	16	7	8	2	2
11	11	11	9	9	8	7	7	6	7·3	4·5	15	8	15	13	5	3	3
12	13	12	11	10	9	7	5	6	7·5	4·7	15	50	18	9	8	1	4
5	5	5	5	4	3	4	5	7	5·7	3·3	12	28	10	21	30	2	5
7	5	5	5	5	5	5	5	7	7·1	4·5	8	40	14	20	35	3	6
9	9	9	8	6	7	7	6	6	9·7	7·1	4	35	19	19	5	3	7
9	11	12	11	9	8	7	7	5	8·2	5·0	16	10	15	4	15	3	8
10	11	13	12	11	8	6	6	6	8·0	4·7	17	30	16	11	20	4	9
14	14	15	13	11	9	8	7	9	9·1	5·6	15	40	20	0	35	4	10
14	13	13	13	12	11	10	7	8	10·6	7·0	15	18	20	2	30	5	11
10	12	12	13	13	13	8	5	7	8·9	5·4	19	3	17	1	15	4	12
10	10	10	10	10	9	8	7	7	9·0	5·7	3	45	15	8	16	3	13
9	10	12	12	10	10	8	6	7	8·5	5·5	16	50	16	12	50		14
10	10	11	10	10	9	8	6	5	8·0	5·3	17	45	15		10	4	15
9	10	9	8	9	8	7	6	6	7·3	4·9	15	45	13	12	3	3	16
7	7	6	6	5	4	4	3	3	6·0	4·0	6	5	12	0	5	3	17
11	10	9	9	8	8	7	6	5	7·1	4·9	15	47	16	7	0	0	18
11	12	11	10	11	10	7	5	5	7·3	4·8	14	50	16	9	6	1	19
11	9	9	7	5	7	7	5	4	6·5	4·3	15	40	14	8	2	1	20
9	9	8	9	10	11	10	10	4	7·5	5·0	20	25	15	2	45	3	21
7	13	14	14	13	13	6	7	7	9·2	5·9	17	0	20	0	20	3	22
11	11	15	14	13	11	8	5	5	9·7	6·5	17	15	19	22	3	3	23
10	11	12	11	11	11	8	4	4	9·4	6·0	8	30	19	2	0	4	24
9	13	13	12	13	11	9	7	7	10·2	6·6	19	50	18	14	5	3	25
13	15	14	14	14	15	9	4	5	9·7	6·5	20	15	21	12	35	3	26
11	13	15	14	14	11	9	7	7	9·4	5·5	17	20	21	10	15	3	27
13	11	12	7	7	4	3	3	4	7·4	4·6	17	30	23	22	15	2	28
9	7	4	4	5	5	5	3	4	6·6	4·2	15	8	13	10	58	2	29
8	9	8	6	7	14	6	7	4	5·9	4·0	19	58	28	6	52	1	30
9·8	10·4	10·6	10·0	9·5	9·0	7·1	5·8	5·7	8·1	5·2							Mean.

DECEMBER.

7	12	7	6	6	5	8	7	6	6·8	4·5	16	40	26	0	36	3	1
11	12	11	12	13	11	10	7	5	8·3	5·4	16	35	18	2	30	2	2
12	13	14	14	12	9	7	6	7	8·6	6·2	18	15	19	13	10	3	3
15	14	14	12	11	9	7	5	5	8·3	5·9	15	50	21	7	45	1	4
12	11	12	10	9	9	6	6	8	8·3	5·5	14	45	16	7	20	1	5
10	11	11	11	10	10	8	7	6	8·5	5·6	13	45	18	10	33	2	6
9	11	12	13	10	9	6	6	6	7·2	4·8	17	50	15	10	32	2	7
11	14	13	13	9	8	7	7	6	7·3	4·8	17	30	17	7	50	2	8
10	12	13	12	10	7	7	5	5	7·5	5·1	16	50	16	0	25	3	9
9	10	9	9	10	8	4	5	5	7·1	4·6	15	50	13	12	55	3	10
11	12	12	10	10	7	4	6	3	7·7	5·4	17	3	17	3	10	3	11
11	10	11	11	14	13	9	7	7	8·7	6·1	19	15	21	0	20	2	12
10	11	11	13	13	10	8	8	6	8·3	5·8	19	50	20	12	45	3	13
11	11	11	12	11	10	8	8	7	8·2	5·4	16	45	16	6	58	3	14
9	8	10	9	11	10	11	9	8	8·6	5·7	7	8	15	12	40	4	15
9	9	10	9	9	10	8	6	5	7·6	5·0	6	32	14	1	40	3	16
7	10	11	11	12	13	6	8	9	9·6	6·7	20	28	18	21	57	4	17
11	12	13	13	13	12	8	6	5	10·3	7·2	18	25	19	11	30	3	18
13	15	12	12	9	8	6	7	8	8·9	6·3	16	47	21	11	35	4	19
9	16	15	12	11	6	5	8	10	9·9	7·2	16	42	22	21	20	4	20
6	7	9	11	11	8	7	7	8	8·0	5·3	18	15	15	1	30	3	21
9	8	7	5	4	2	3	7	9	7·5	4·8	6	35	13	21	2	2	22
9	10	10	9	8	7	5	5	4	7·0	4·6	14	33	12	7	50	3	23
8	7	5	4	3	3	4	5	5	6·5	4·5	12	35	14	0	10	2	24
15	14	13	14	15	14	11	6	6	10·1	7·0	20	3	20	8	35	3	25
11	12	14	13	11	9	10	11	10	9·6	6·6	17	57	19	11	0	3	26
16	17	15	14	12	12	12	9	7	9·8	6·7	16	20	22	7	55	3	27
15	17	18	18	16	11	10	8	6	10·2	6·9	17	50	23	9	55	3	28
19	16	16	14	12	12	13	10	8	12·0	8·5	16	5	23	9	45	3	29
18	15	14	13	12	10	10	9	6	10·6	7·5	15	35	23	8	52	3	30
7	7	7	9	9	5	5	4	5	7·4	4·9	2	40	12	22	7	3	31
11·0	11·7	11·6	11·2	10·5	8·9	7·5	6·9	6·5	8·5	5·8							Mean.

DIRECTION OF WIND, 1932.

JANUARY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.)

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	NNE	NNE	NE	ENE	NE	ENE	ENE	ENE	ENE	ENE	E	NNW
2	NNE	NNE	NNE	NE	NE	E	E	ESE	ENE	E	E	ESE
3	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	ENE	ENE	ENE
4	NE	NE	ESE	E	NE	ENE	ENE	ESE	ENE	ENE	ENE	ESE
5	ENE	NE	ENE	ENE	ENE	ESE	NE	NE	ENE	ENE	ENE	E
6	ESE	ESE	ENE	NE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE
7	ENE	NE	NE	ENE	ENE	ESE	ESE	ESE	SE	SE	ESE	ESE
8	ESE	ENE	NE	ENE	ENE	ESE	ESE	SE	SE	SSE	SSE	SW
9	ENE	ENE	ENE	ENE	ENE	NE	NE	ENE	E	E	ENE	E
10	NNE	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE
11	NNE	NNE	NE	E	ESE	ENE	ESE	E	ENE	ENE	ENE	E
12	NNE	ESE	ENE	ENE	ENE	NE	NE	ENE	ENE	ENE	ENE	E
13	ENE	E	ESE	ENE	ENE	ENE	ENE	ESE	E	ENE	E	E
14	NNE	SE	SE	ESE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E
15	E	ESE	ENE	NE	NE	ENE	ENE	ENE	ENE	E	SE	SE
16	NE	ENE	NE	NE	ENE	ENE	ENE	E	ENE	ENE	NNW	E
17	NNE	NE	NE	NE	NE	NE	E	ENE	ENE	ENE	ENE	ENE
18	ENE	NNE	NNE	NE	ENE	E	ENE	E	E	ENE	ENE	ESE
19	NNE	NNE	SE	E	E	E	ESE	ESE	E	ESE	E	ENE
20	ENE	ENE	ENE	E	E	E	E	ENE	ENE	ENE	ENE	ENE
21	NNE	ENE	SE	ENE	ENE	NE	ENE	ESE	ESE	ESE	ESE	ESE
22	ENE	ENE	ENE	ENE	ENE	NE	ENE	ENE	ENE	ENE	ENE	E
23	SE	ESE	ENE	ENE	E	ESE	E	E	ENE	ENE	ENE	E
24	NE	E	ENE	ENE	E	ESE	ESE	ESE	ESE	E	E	ESE
25	ENE	E	E	E	ENE	ENE	ENE	E	E	E	E	E
26	E	ENE	ENE	ENE	NE	ENE	NE	E	ENE	ENE	ENE	E
27	SE	ESE	ESE	ENE	NE	NE	NE	ENE	E	ENE	ENE	ENE
28	ESE	ESE	ESE	E	E	ENE	E	E	ENE	E	E	NNW
29	SE	NNE	NNE	NE	E	ENE	ENE	E	ENE	ENE	E	ENE
30	NE	E	ESE	ENE	NE	ENE	E	E	E	ENE	ENE	E
31	ESE	ESE	ESE	E	ESE	E	ENE	ENE	ENE	ENE	ESE	NW
Mean.	ENE	ENE	ENE	ENE	ENE	ENE	ENE	E	E	E	E	E

FEBRUARY.

1	NNE	NE	SW	ENE	ESE	ESE	ESE	ESE	SE	ENE	ESE	NW
2	NNW	NNW	NE	NE	NE	ENE	ESE	E	E	ESE	ESE	ESE
3	NE	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	ENE	NNW
4	NNE	NNE	NNE	NNE	NE	NE	ENE	ENE	E	ENE	ENE	NNW
5	NE	NE	NE	NE	E	ENE	ENE	E	E	E	ENE	ESE
6	NE	NE	ENE	E	E	ENE	ENE	E	E	ESE	ESE	SE
7	NNW	NNW	SE	SE	SE	SE	SE	ESE	ESE	SE	SE	SSW
8	NNW	NNW	NNW	E	ESE	ESE	ESE	ESE	ENE	ENE	ENE	NNW
9	NNE	NE	NE	NE	NNE	NNE	NNE	NE	NE	ENE	ENE	E
10	NNE	NNE	NNE	NNE	NE	NE	NE	NE	ENE	ENE	ENE	NNW
11	NNE	N	NNE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	E
12	N	NE	NE	NE	NE	NE	ENE	ENE	ENE	ENE	E	NNW
13	NE	NE	NNE	NNE	NNE	NE	NE	ENE	ENE	ENE	ENE	NNW
14	NNW	NE	NE	NE	NE	NE	ENE	NE	NE	NNE	NNE	N
15	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	ENE	NE
16	NE	NE	ENE	ENE	ENE	ENE	ENE	ENE	NE	ENE	ENE	E
17	NNE	ENE	E	ENE	ENE	ENE	ENE	E	ESE	ESE	ESE	W
18	SSE	SSW	Variable	NW	NW	SE	SE	SE	S	SW	SW	SW
19	W	WNW	NW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	NNW
20	NNE	NE	N	NNE	NNE	NE	ENE	ENE	E	ENE	ENE	ENE
21	NNE	SE	SE	ESE	E	ESE	ESE	ESE	E	E	ENE	ENE
22	SSE	SSE	SE	SE	SE	ESE	ESE	ENE	ENE	E	E	NW
23	ESE	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	SW	SW
24	SW	SSW	SE	SE	SE	SE	SE	SE	SE	SE	SSW	SW
25	WSW	WSW	SSW	SE	SE	SE	SE	SE	SE	SE	SSE	W
26	SW	SW	SSW	SE	SE	SE	ESE	ESE	SE	SE	SW	WNW
27	SSE	S	SW	SW	SW	S	SE	SE	SE	SE	SW	WNW
28	N	NE	NE	NE	NE	NE	NE	E	E	NNW	NW	NW
29	NE	NNE	NE	NE	NE	NE	NE	NE	ENE	E	ESE	NW
Mean.	NNE	NE	ENE	ENE	ENE	ENE	E	E	E	E	ENE	NNW

DIRECTION OF WIND, 1932.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JANUARY.

Hours.												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	N	1
WNW	NW	NW	NW	NW	NNW	NNW	N	N	NNE	NNE	NNE	NNE	2
WNW	NW	NW	NW	NW	NNW	NW	NNW	N	NNE	NNE	NNE	NNE	3
WNW	NW	WNW	NW	NW	NW	NNW	NNW	N	ENE	ENE	ENE	NNE	4
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NE	NE	E	NNE	5
NW	NW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	ENE	ESE	NNE	6
SE	W	WNW	WNW	WNW	NW	NW	NNW	N	NE	NE	ESE	ENE	7
WSW	WNW	WNW	WNW	WNW	WNW	NW	NW	NNW	NNW	ENE	E	E	8
E	NW	NW	NW	NW	NW	NNW	N	N	NNE	NNE	NNE	NNE	9
NW	NNW	NNW	N	N	N	N	N	NNE	NNE	NNE	NNE	NNE	10
E	NW	NW	NW	NW	NNW	NNW	NNW	NNE	NNE	N	NNE	NNE	11
Variable	NW	NW	NW	NNW	N	N	N	N	NNE	NNE	N	NNE	12
ESE	WNW	NW	NW	NNW	NNW	N	N	N	NNE	N	N	NE	13
E	E	NW	NW	NNW	NNW	NNW	N	N	NNE	NNE	NE	NNE	14
NW	NW	NW	NW	NNW	NNW	NNW	N	N	NNE	NNE	ENE	NNE	15
SE	NW	NNW	NNW	NNW	NNW	N	N	N	NNE	NNE	NE	NNE	16
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNE	ENE	ENE	NNE	17
E	NW	NW	NW	NW	NNW	N	N	NNE	NNE	NNE	NNE	NNE	18
E	ENE	ENE	NW	NW	NNW	NNW	NNW	N	NNE	NE	NE	NE	19
E	E	NW	NNW	NW	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	20
SE	W	WNW	NW	NW	NW	NNW	NNW	NNE	NE	NNE	NNE	NE	21
NW	NW	NNW	NW	NNW	NNW	N	N	NNE	ENE	ESE	ESE	NNE	22
E	ENE	NW	NNW	NNW	N	N	N	N	NNE	N	N	NE	23
SW	WNW	NW	NW	NNW	NNW	N	N	NE	NE	ENE	E	NE	24
SE	WNW	NW	NW	NNW	N	N	N	NE	ENE	E	ESE	NE	25
ESE	NW	NW	NW	NNW	N	N	N	NNE	NE	NE	SE	NNE	26
WNW	NW	NW	NNW	NNW	N	N	N	N	NE	ENE	ESE	NNE	27
NNW	NNW	NW	NW	NNW	NNW	N	N	N	NNE	NE	E	NNE	28
NW	NW	NNW	NW	NNW	NNW	NNW	N	N	NNE	NE	NNE	NNE	29
W	WNW	WNW	NW	NW	NNW	NNW	NNE	NNE	ENE	SE	SE	NE	30
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNW	N	NE	NNE	31
NNW	NW	NW	NW	NNW	NNW	NNW	N	N	NNE	NE	NE	NNE	Mean.

FEBRUARY.

NW	NW	NW	NW	NNW	NNW	NNW	N	N	NW	NNW	NNW	N	1
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NE	N	2
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	N	3
NNW	NW	NW	NW	NW	NNW	NNW	N	N	NNE	NNE	NE	N	4
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	5
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	6
W	W	W	WNW	WNW	W NW	NW	NW	NW	NW	NW	NNW	WNW	7
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	N	8
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	NNE	N	9
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	N	10
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	N	11
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	12
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	13
NNW	NNW	NNW	NNW	NNW	NNW	W	NNW	NNW	NNW	N	NNE	N	14
NNW	NNW	NNW	NNW	N	N	N	N	NNE	NNE	NNE	NNE	NNE	15
SE	SSE	E	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NE	16
WNW	NW	NW	NW	NNW	NNW	NNW	N	N	ESE	E	SE	NNE	17
W	WNW	W	WNW	WNW	WNW	W NW	WNW	WNW	W	W	W	W	18
NW	NW	NW	WNW	WNW	NNW	N NW	N	NNW	N	NE	NE	NNW	19
ENE	NW	NW	NNW	NNW	N	N	N	N	N	NNE	NNE	NNE	20
NW	NW	NW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	NNE	NNE	21
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNE	NNE	N	22
WSW	W	W	W	WNW	WNW	W NW	WNW	N	WSW	WSW	S W	N	23
W	W	W	W	WNW	NW	NW	NW	W	WNW	NW	NNW	SW	24
W	W	WNW	WNW	NW	NW	NW	NW	WNW	WSW	SSW	SSW	WSW	25
W	W	WNW	WNW	NW	NW	NW	NW	WSW	SSE	SSE	SSE	WSW	26
WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	NW	27
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	NE	NE	NNW	28
NW	NW	NW	NW	NNW	NNW	N	N	NE	NE	NE	E	N	29
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	Mean.

DIRECTION OF WIND, 1932.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	SE	N	N	N	NNE	NNE	NE	E	NE	NE	ENE	NW
2	SE	SE	E	ENE	SE	N	NNE	NNE	ENE	ESE	S	S
3	NNW	N	SSE	N	N	ESE	SE	ESE	ESE	E	E	WNW
4	ENE	NE	ENE	NE	NE	ENE	E	E	ESE	ESE	SE	SW
5	NE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ESE	E	E	NW
6	SE	SE	SE	E	ESE	E	ENE	ENE	E	E	ENE	NW
7	SE	SE	SE	ESE	ESE	ESE	SE	ESE	E	ENE	ENE	NW
8	SE	SE	ESE	E	SE	N	ESE	SE	SE	SE	SE	NW
9	SSE	SSW	W	WNW	NW	NNW	SE	SE	SE	S	SW	WNW
10	NNW	NNW	NNW	NNW	SE	SE	NE	ENE	ENE	E	E	NW
11	N	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NNE	N	N
12	N	N	NNE	NNE	NNE	NNE	NNE	NNE	NE	NE	NNW	NNW
13	NNE	NNE	N	NNE	NNE	NE	NE	NE	NNE	NNE	N	N
14	ENE	N	N	N	NNE	NNE	NNE	NNE	NNE	N	N	NNW
15	N	N	NNE	NNE	NNE	NE	NE	NE	NNE	N	NNW	NNW
16	NNW	NNW	NNW	NNE	ENE	ESE	E	E	ESE	NNW	NNW	NW
17	NNW	NNW	N	NE	NE	SE	E	ENE	E	ESE	SW	NW
18	NNW	NNW	NNW	NE	NE	E	ESE	ESE	E	E	NNW	NNW
19	N	N	NNE	NNE	NNE	NE	NE	ESE	E	ESE	SW	WNW
20	N	N	NNE	NE	NE	NE	NE	SSE	SSE	SSW	W	WNW
21	NE	NNE	NNE	NNE	NNE	NNE	NNE	N	N	N	NNW	NNW
22	NNW	NNW	NNW	N	N	NE	NE	NNE	NNE	N	NNW	NNW
23	NNW	N	N	NNE	NNE	N	NNE	NE	NNE	N	NNW	NNW
24	N	N	N	N	NNE	NNE	NNE	NE	NNE	N	NNW	NNW
25	NE	NE	NNE	NNE	N	NE	NE	E	NNE	NNW	NNW	NNW
26	NNE	NNE	NNE	NNE	N	N	NNE	NNE	NNE	NNE	NNW	NNW
27	N	N	N	NNE	NNE	NNE	NE	ENE	E	ESE	NNW	NW
28	NNW	N	ENE	NE	NE	ESE	SE	SE	SE	SE	NW	NW
29	N	N	NE	NE	NE	ESE	ESE	E	ESE	ESE	NW	NW
30	N	NE	NE	NNE	NNE	NNE	NE	ENE	E	E	E	NW
31	N	N	N	NNE	NNE	N	NNE	ENE	S	NNW	NNW	NNW
Mean.	N	N	NNE	NNE	NNE	NE	NE	ENE	ENE	NE	NNW	NNW

APRIL

1	NNE	NNW	N	N	N	N	NNE	NE	NNE	NNW	NNW	NNW
2	NW	NNW	NNW	N	NE	SE	ENE	ENE	ENE	E	NW	NNW
3	SW	SW	SW	SW	SW	SW	SSW	SSW	SSW	SW	SW	SW
4	SW	WSW	WSW	W	SW	SSW	SSE	SSE	SSE	SW	W	W
5	SSW	WSW	WSW	WSW	SW	SW	SE	SE	NW	NW	NW	NW
6	N	N	N	NE	NE	NE	NE	ENE	ESE	SE	NW	NW
7	NNW	N	N	NE	NE	NE	NE	ENE	E	NNW	NNW	NW
8	N	N	N	NE	NNE	NE	NE	NNE	NNW	NNW	NNW	NNW
9	N	N	N	N	N	NE	NE	NNE	NNE	NNE	NNW	NNW
10	N	N	N	N	NNE	NNE	ENE	ENE	N	N	NNW	NNW
11	WSW	WSW	SW	SW	SW	SW	SSW	SSW	SSW	SW	SW	WSW
12	SSW	SW	SW	SW	SW	SW	SW	SW	SW	SW	SW	W
13	WNW	W	NNW	NNW	NNW	SW	SW	WSW	SW	SW	SW	WSW
14	W	WSW	SW	SSW	SSW	SSW	SSW	SW	SW	SW	SW	WSW
15	WSW	WSW	WSW	W	WNW	W	WSW	SW	SW	SW	W	SW
16	SW	SW	SW	SW	SW	SW	SW	SSW	SW	SW	SW	SW
17	SW	SW	WSW	WSW	SW	SW	SSW	SSW	SSW	SW	SW	SW
18	N	NNE	NE	NE	NE	NE	NE	NE	ENE	E	NW	NW
19	N	N	N	N	NNE	NE	NE	NE	NNE	NNW	NNW	NNW
20	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	NNW	NW	NW
21	NNW	NNW	N	N	NE	NE	NE	NE	NNW	NNW	NNW	NW
22	NNW	NNW	NNW	NNW	NNW	NE	NE	NE	NNW	NNW	NNW	NNW
23	NNW	NNW	NNW	NNW	NNW	N	N	NNE	N	NNW	NNW	NNW
24	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	N	N	NNW	NNW
25	WNW	NW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	NW	NW
26	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW
27	NNW	N	NNE	N	N	NE	NNE	E	ENE	E	NNW	NW
28	NNW	NNW	NNW	NE	NNE	NE	NNE	NNE	N	NNW	NNW	NNW
29	N	N	N	NNE	NNE	NNE	NNE	ENE	NNE	NNW	NNW	NNW
30	N	N	NNE	ENE	NE	N	N	N	N	NNW	NNW	NNW
Mean.	NW	NW	NNW	NNW	NNW	NW	NE	E	NW	WNW	NW	NW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH.

Hours.												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
NW	NW	NW	NW	NW	NNW	N	N	NNE	ENE	SE	SE	N	1
WNW	NW	NW	NW	NW	NNW	NNW	N	N	N	NNE	NNE	N	2
NW	NW	NW	NW	NW	NNW	NNW	NNE	NE	NE	E	ENE	N	3
WNW	WNW	WNW	WNW	WNW	NW	NNW	NNW	NNE	ENE	ENE	ENE	NNE	4
NW	NW	NNW	NNW	NNW	NNW	NW	NW	NNW	NNW	NNW	N	N	5
NNW	NNW	NNW	NNW	NNW	N	N	NNW	N	ENE	N	N	NNE	6
NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	NE	SSE	SSE	NNE	7
NW	NW	NW	NNW	NNW	N	NNW	N	NNE	ESE	SSE	S	NNE	8
WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	9
NNW	N	N	N	N	N	N	N	N	NNE	NNE	N	N	10
N	NNW	NNW	N	N	N	N	N	N	N	N	N	N	11
NNW	NNW	N	N	N	N	N	N	N	N	NNE	NNE	N	12
N	N	NNW	N	N	N	N	N	NNE	NNE	NNE	NNE	N	13
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	NE	N	N	14
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	WNW	NNW	N	15
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	16
NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	17
NNW	NNW	NNW	NNW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	18
WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	19
NW	NW	NW	NW	NW	NW	NW	NW	NNW	N	N	NE	NW	20
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	21
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	NNW	22
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	23
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	NNE	N	24
NNW	N	N	N	N	N	N	N	N	N	N	N	N	25
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNW	N	26
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	27
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	28
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	29
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	N	N	30
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	N	31
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	Mean.

APRIL.

NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNW	N	1
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	SW	WSW	SW	SW	NNW	2
SW	WSW	W	W	WNW	WNW	WNW	WNW	WSW	SW	SW	SW	SW	3
WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	SW	SSW	W	4
NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	WNW	5
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	6
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	7
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	8
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	N	9
NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NW	NW	NW	WNW	NNW	10
WSW	WSW	WSW	W	W	W	WSW	W	WSW	SW	SW	SW	SW	11
W	WNW	NW	NW	NW	NW	NW	NW	N	NW	ESE	WNW	WSW	12
WSW	WSW	W	WNW	NW	NW	WNW	WNW	SSW	SSW	WSW	WSW	W	13
WSW	WSW	W	WNW	WNW	WNW	NW	NW	NW	NW	NW	SW	WSW	14
W	W	W	W	W	W	WSW	WSW	SW	SW	SW	SW	WSW	15
SW	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	SW	SW	SW	SW	16
SW	SW	WSW	W	W	WNW	WNW	WNW	WNW	NW	NW	NNW	WSW	17
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	18
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	19
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	20
NW	NW	NW	NNW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	21
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	22
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	23
NW	NW	NW	NNW	NNW	NNW	NW	NW	WNW	NW	WNW	WNW	NNW	24
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	25
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	26
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	NNW	27
NNW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	N	N	N	NNE	N	28
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NNW	29
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	30
NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	NW	NW	Mean.

DIRECTION OF WIND, 1932.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	N	N	N	N	N	N	N	N	N	NNW	NNW	NNW
2	N	N	NE	NE	NNE	NE	NE	NE	NNE	NNW	NNW	NW
3	NNW	NNW	N	NNE	NNE	NE	NNE	NNE	NNE	NNW	NW	NW
4	NNW	N	N	NNW	NE	NE	NE	ENE	ESE	SSW	W	WNW
5	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	WNW
6	W	WNW	WNW	NW	NW	NW	NNW	N	NNW	NNW	NNW	NW
7	NW	NW	NW	NW	NNW	NNW	NW	NNW	NNW	NW	NW	NW
8	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	WNW	WNW	WNW
9	NNW	NNW	NNW	NNW	NNW	N	ENE	SE	SSE	SSW	W	WNW
10	WNW	W	W	WNW	NW	NW	NW	NW	NNW	NW	NNW	NNW
11	NNW	NNW	NW	NNW	NNW	N	NE	E	ESE	S	NW	NW
12	N	N	NE	NE	ESE	ESE	SE	WNW	WNW	NW	NW	NNW
13	NNW	N	N	NNE	NNE	NNE	ENE	SSE	SE	Variable	WNW	NW
14	NW	NW	N	N	NE	ENE	ESE	ESE	SSW	W	W	WNW
15	W	WNW	WNW	NW	SSW	SSW	SSE	SSW	WSW	WSW	WSW	NW
16	WSW	WSW	WNW	WNW	NW	NW	NW	NW	WNW	WNW	WNW	WNW
17	NNW	N	NW	NNW	NW	NNW	NNW	WNW	NW	NW	NW	NW
18	NW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNW	NW	NW
19	SW	SW	SW	SW	SSW	SW	SW	WNW	WSW	W	W	WNW
20	NNW	SW	SW	WSW	SW	SW	SSW	WSW	SSE	SSW	SW	SW
21	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WNW	NW	NW	NW
22	N	SW	WSW	WSW	SSW	SSW	SSW	SSW	SSW	SSW	SW	W
23	SSW	W	SW	SW	WSW	SW	SW	SW	SSW	SSW	SW	SW
24	SW	SW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
25	WSW	WSW	W	W	W	W	W	W	WNW	WNW	W	W
26	WSW	WSW	WSW	W	W	W	W	W	W	W	W	W
27	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	NW	NW	NW	NW
28	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW
29	WNW	WNW	W	W	W	W	WNW	W	W	W	WNW	WNW
30	W	WNW	WNW	W	W	WSW	W	WNW	WNW	W	WNW	WNW
31	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NW	NW
Mean.	NW	WNW	WNW	NW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW

JUNE.

1	WNW	WNW	NW	WNW	NW	W	WSW	WSW	SW	SW	SW	SW
2	W	WNW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW
3	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WSW	W
4	SSW	SW	WSW	SSW	SW	S	SSE	S	SSW	SSW	SW	W
5	SW	WSW	WSW	WSW	W	N	SE	SSE	WSW	WSW	SSW	SW
6	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW
7	W	W	WSW	W	WSW	WNW	WNW	WNW	W	WNW	WNW	WNW
8	W	W	WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	WNW
9	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
10	WNW	W	W	W	W	WSW	WSW	W	W	W	WSW	WSW
11	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
12	WNW	WNW	WNW	WNW	NW	NW	NW	NW	W	NW	NW	WNW
13	W	W	W	W	W	W	W	W	W	WSW	WSW	WSW
14	W	W	W	W	W	W	W	W	W	W	W	W
15	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	WSW
16	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	SSE	SSE	SSW	SSW
17	SE	SE	SE	SE	SE	SE	SE	SE	SE	SSE	SW	W
18	WNW	NW	WNW	SSE	WSW	ENE	ESE	SSE	SSE	SE	SSW	SW
19	SW	SW	ENE	SW	SSW	SSE	SSE	SE	SE	SE	SW	WSW
20	SSW	SSW	SE	S	SSE	SE	SSE	SSW	SSW	SSW	SW	SW
21	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	W	W	W
22	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	NW	NW	SW	SW
23	WNW	W	NNW	SE	ESE	ESE	SE	SW	S	SSW	SSW	SW
24	SW	SW	SSW	SSE	SSE	S	S	WNW	W	NNW	NNW	WNW
25	S	SW	WSW	WSW	SW	SW	SSE	S	SSW	SSW	SSW	SSW
26	S	SSE	SSE	SSW	SW	SW	SW	SSE	S	S	W	W
27	S	SW	WNW	SW	SW	SW	WNW	NW	NW	W	SSE	SSW
28	SSW	SW	SSW	SSW	SSW	SSW	SW	SW	WSW	WNW	WNW	WNW
29	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
30	WSW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	WSW	WSW	W
Mean.	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY.

Hours.												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	1
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	2
NW	NW	NW	NW	NW	WNW	NW	NW	NW	NW	NW	NNW	NNW	3
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	4
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	NW	5
NW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	NW	NW	6
NW	NW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	7
WNW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	NNW	NW	8
WNW	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	WNW	NW	9
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	NW	10
NW	NNW	NNW	NNW	NW	NNW	NNW	NNW	NNW	NNW	N	N	NNW	11
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	SSW	NW	NNW	NNW	12
NW	NW	NNW	NW	NW	NW	NNW	W	SSW	WSW	WNW	NW	NNW	13
WNW	WNW	WNW	WNW	WNW	WNW	WNW	SW	SW	SW	SW	WSW	W	14
NW	NW	NW	NNW	NNW	NW	NW	NW	NW	SSW	SSW	SW	WNW	15
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	16
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	SSW	SSW	W	NW	NW	17
NW	NW	NNW	NNW	NNW	NNW	WNW	NNW	NNW	NE	S	SSW	NNW	18
NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	WNW	WNW	NNW	WNW	19
WSW	W	WNW	WNW	NNW	ENE	NW	NW	W	SW	SW	SW	WSW	20
NW	NNW	NW	NW	NW	NE	NE	N	ENE	NE	ENE	NE	NNW	21
W	W	W	WSW	SW	WSW	SW	SSW	SW	SSW	SSW	SSW	SW	22
SW	SW	SW	SW	WSW	SW	SW	SW	SW	SW	SW	SW	SW	23
W	W	WNW	WNW	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	24
W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	25
W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	26
NW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	W	W	WNW	27
NW	NW	NW	NW	NW	WNW	WNW	WNW	W	WSW	WSW	W	WNW	28
WNW	WNW	NW	NW	NW	WNW	WNW	W	WSW	WSW	W	W	WNW	29
WNW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	30
NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	NW	31
WNW	NW	NW	NW	NW	NW	NW	NW	WNW	W	W	WNW	WNW	Mean.

JUNE.

SW	W	W	W	WNW	WNW	W	W	WSW	W	WSW	WSW	W	1
WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WSW	2
NW	WNW	WNW	WNW	WSW	W	WSW	WSW	WSW	WSW	WSW	SSW	W	3
NW	W	W	WNW	WNW	W	W	WSW	WSW	SW	SW	SW	SW	4
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	W	5
WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WSW	WSW	WSW	WSW	WNW	6
WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	W	W	W	WNW	7
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	8
WNW	WNW	NW	WNW	WNW	WNW	WNW	W	WNW	WNW	W	W	WNW	9
W	W	WNW	WNW	WNW	WNW	W	W	WSW	WSW	WSW	WSW	W	10
WSW	W	W	W	WNW	NW	NW	NW	NW	NW	NW	NW	W	11
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WNW	12
W	W	WSW	WNW	WNW	W	W	W	W	W	W	W	W	13
W	W	W	W	W	W	W	W	W	WSW	WSW	WSW	W	14
WSW	WSW	WSW	W	WSW	WSW	SW	WSW	SW	SW	WSW	WSW	WSW	15
SW	W	W	WNW	WNW	NW	SE	SSE	SSE	SSE	SSE	SE	SSW	16
W	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	WNW	NW	NW	SW	17
SW	WSW	WSW	WSW	WSW	SW	WSW	WSW	SW	WSW	WSW	SW	SW	18
WNW	NW	NW	NW	NNW	NW	SW	WSW	WSW	SW	SW	SSW	SW	19
WSW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	W	20
W	WSW	SW	W	W	W	W	W	SW	W	WSW	WSW	W	21
SW	SSW	SSW	SSW	SSW	SSW	SSW	SSW	NW	SW	SW	SW	SW	22
SW	SSW	SSW	SSW	SW	SW	WNW	SW	SW	SSE	SW	SW	SSW	23
WNW	WNW	WSW	NW	NNW	E	SSE	SSE	SSE	SSW	SE	SSE	SW	24
SSW	SW	SW	SW	W	WNW	NW	WNW	W	SW	SW	WSW	SW	25
W	WNW	WSW	WSW	SW	SW	SW	SW	SW	SW	S	S	SSW	26
W	W	WNW	WNW	NNW	WNW	WNW	SSW	SSW	WSW	SW	NW	W	27
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	28
WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WSW	W	WSW	WNW	29
W	W	W	W	WSW	W	W	WNW	WSW	WSW	WSW	WNW	W	30
W	W	W	W	W	W	W	W	WSW	WSW	WSW	WSW	W	Mean.

DIRECTION OF WIND, 1932.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	WSW	WSW	WSW
2	SW	WSW	SW	SW	SW	S	S	SSW	SSW	SSW	SW	WSW
3	W	WNW	WNW	SSE	SSE	SW	SSE	ENE	ENE	SSW	WSW	W
4	WSW	WSW	W	WNW	N	N	N	E	ESE	S	NW	SW
5	SW	W	W	SW	S	S	SW	NW	NW	WNW	WNW	NW
6	WNW	WNW	WSW	SW	SW	SW	WNW	WNW	WSW	WSW	WSW	W
7	WNW	WNW	WSW	WSW	WNW	WSW	W	WSW	W	W	WNW	WNW
8	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	WSW	SW	WNW
9	W	WSW	SW	SSW	S	SSW	SSE	SW	SSE	SW	SW	SW
10	SSW	SSW	W	SW	SW	SW	WNW	SSW	W	WSW	SW	WSW
11	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW
12	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W
13	W	W	WSW	W	W	W	W	WSW	WSW	WSW	WSW	WSW
14	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W
15	NW	WNW	WNW	W	W	W	W	W	W	W	W	W
16	W	W	W	W	W	W	W	W	W	W	WNW	WNW
17	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW
18	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
19	WNW	WNW	WNW	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW
20	W	W	W	W	W	WNW	WNW	WNW	W	W	W	WNW
21	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
22	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W
23	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
24	W	WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
25	W	W	WNW	WNW	WNW	W	W	W	W	W	W	WSW
26	W	WNW	WNW	W	NW	WNW	NW	WNW	SW	SW	W	SW
27	W	W	WNW	WNW	WNW	WNW	WNW	W	W	W	WNW	WNW
28	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	W
29	W	W	W	W	W	W	W	WSW	WSW	WSW	WSW	WSW
30	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	WSW	WSW	W	W
31	W	W	WSW	WSW	W	WSW	WSW	WNW	WNW	WNW	WNW	WNW
Mean.	W	W	W	W	W	W	W	W	W	W	W	W

AUGUST.

1	W	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
2	WSW	WSW	WSW	W	W	W	W	W	W	W	W	W
3	W	W	WNW	W	W	WNW	WNW	WNW	WNW	WNW	W	WNW
4	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW
5	WNW	WNW	W	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	WNW
6	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
7	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW
8	W	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
9	W	W	W	WNW	WNW	W	WNW	WNW	W	W	W	W
10	W	W	W	W	WNW	WNW	W	NW	W	W	WNW	W
11	W	W	W	WSW	WSW	WSW	WSW	WSW	WSW	W	W	W
12	W	WNW	W	NW	W	WSW	WSW	WSW	WSW	W	WSW	WSW
13	W	WNW	WNW	WNW	W	W	W	W	W	WSW	SW	WSW
14	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	SW	WSW	SW	SW
15	W	WNW	WNW	WNW	WNW	W	W	WNW	W	WSW	WSW	WSW
16	WSW	WSW	WSW	WNW	WNW	NW	NW	NW	NW	NW	NW	WNW
17	NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NW	NW
18	NW	NW	WNW	NW	NW	WNW	E	NW	NW	NW	NW	WNW
19	NW	NW	NW	NW	NW	NW	WNW	Calm	Calm	NW	NW	NW
20	NNW	NNW	NNW	NW	NNW	NNW	ESE	ESE	ESE	Variable	NNW	NNW
21	ENE	ENE	NE	E	NE	NE	NNE	NNE	N	N	N	NNW
22	NNE	NNE	N	NNE	NNE	NE	NE	NNE	NNW	NNW	NNW	NNW
23	NNE	NNE	NNE	NNE	NNE	NNE	NE	ENE	ENE	ESE	NNW	NNW
24	NNW	NNW	NNW	NNW	ENE	ENE	ENE	ENE	ENE	N	NNW	NNW
25	NNW	NNW	N	N	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW
26	NNW	NW	NNW	NE	NE	SSE	SSW	S	SSW	SSW	WNW	NW
27	NW	NW	NNW	N	NE	NE	NE	ENE	E	ESE	NNW	NNW
28	NE	NE	NE	ENE	NE	ENE	ENE	E	E	NNW	NNW	NNW
29	N	NNE	NE	NE	NE	NE	NE	NE	E	ENE	NNW	NNW
30	ENE	NE	NE	NE	NE	NNE	NNE	ENE	E	E	Variable	NW
31	ENE	E	E	N	NE	NE	NE	E	ESE	S	NW	W
Mean.	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW

JULY.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

Hours.												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
WSW	W	WSW	WSW	W	W	W	W	WSW	WSW	WSW	SW	WSW	1
WSW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	SW	W	WSW	2
WSW	W	W	W	WNW	NW	NNW	NW	WNW	W	W	WSW	W	3
SW	WNW	NW	SW	N	Calm	Calm	SE	SSE	SW	SSW	SSW	WSW	4
NW	WNW	WNW	WNW	NW	WNW	WNW	WNW	W	variable	variable	WSW	W	5
W	WNW	WNW	W	WNW	W	W	WNW	W	W	WSW	W	W	6
WNW	WNW	W	W	W	W	W	W	WNW	WNW	WNW	WNW	W	7
NW	SW	WSW	SW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	W	W	8
WSW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	S	SW	9
W	W	W	W	W	W	W	W	W	WSW	WNW	WSW	WSW	10
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	11
W	W	WSW	W	WSW	WSW	WSW	WSW	WSW	WSW	W	WSW	WSW	12
WSW	WSW	W	W	W	WSW-	WSW	WSW	WSW	WNW	WNW	NW	W	13
W	W	W	W	W	W	W	W	W	W	W	WNW	W	14
W	W	W	W	W	W	W	W	W		W	W	W	15
WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	W		W	W	W	16
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	17
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	18
WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	W	W	W	WNW	19
WNW	W	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	20
WNW	WNW	W	W	W	WNW	W	W	WNW	WNW	WNW	WNW	WNW	21
W	WNW	WNW	WNW	W	WSW	WSW	WSW	W	WNW	WNW	WNW	WNW	22
WNW	WNW	WNW	W	W	WNW	WNW	NW	W	W	WNW	WNW	WNW	23
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WNW	24
WNW	W	WNW	WNW	WNW	WNW	W	WNW	W	SW	WSW	W	W	25
WSW	W	WNW	W	W	W	W	W	W	WNW	W	W	W	26
W	WNW	WNW	WNW	W	WNW	WNW	WNW	WNW	NW	W	W	WNW	27
W	WNW	WNW	W	W	W	W	W	W	WSW	W	W	W	28
WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	WSW	29
W	W	W	W	W	W	W	W	W	W	W	W	W	30
WNW	WNW	WNW	WNW	W	W	W	W	W	W	W	W	W	31
W	W	W	W	W	W	W	W	W	W	W	W	W	Mean.

AUGUST.

W	WNW	WNW	WNW	WNW	WNW	WNW	W	WSW	WSW	WSW	WSW	WNW	1
W	W	W	W	W	W	W	W	W	W	W	W	W	2
NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	3
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	4
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	5
WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	6
WNW	WNW	WNW	WNW	WNW	W	W	W	W	W	W	W	WNW	7
W	WNW	W	W	W	W	W	W	W	W	W	W	W	8
W	W	WNW	W	WNW	W	W	W	W	W	W	W	W	9
WSW	SW	SW	SW	W	W	WSW	W	W	W	W	WSW	WSW	10
W	W	W	W	W	W	W	WNW	W	W	W	WSW	W	11
WSW	W	NW	W	W	W	W	W	W	WSW	WSW	WSW	W	12
SW	W	SW	W	WSW	W	W	W	W	NW	W	W	WSW	13
WSW	WSW	WNW	WNW	WNW	WNW	W	W	WNW	W	WSW	WSW	W	14
WNW	WNW	NW	NW	NNW	NNW	NNW	NW	NW	NW	NW	NW	NW	15
NW	NW	NW	NW	NNW	NNW	NNW	NNW	NW	NW	NW	WNW	NW	16
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	17
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	N	NNE	NW	18
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	NNW	19
NNW	NNW	NNW	N	N	N	N	N	N	N	NNE	NNE	N	20
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	N	N	NNE	N	21
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	NNW	22
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	23
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	24
NW	NW	NW	NW	NW	NW	NW	NW	NNW	NNW	NNW	NW	NW	25
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NE	NNW	26
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	27
NNW	NNW	NNW	NNW	ENE	ENE	ENE	ESE	SE	ESE	ESE	E	NE	28
NNW	NNW	NNW	NNW	NNW	N	N	SE	ENE	ESE	ESE	E	NNE	29
NW	NW	NW	NW	NNW	N	E	ENE	ENE	ENE	E	E	NE	30
WNW	WNW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	WNW	WNW	Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER.

Date.	Hours.											
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	ESE	W	NW	SW	SW	SSE	SE	S	ESE	SE	SSW	SSW
2	S	SW	WSW	WSW	NW	NW	NW	ENE	ENE	NNW	NNW	NNW
3	S	SW	SSW	W	SSW	ENE	E	NE	ENE	ENE	ENE	E
4	SE	SSW	WSW	W	NW	NNW	NW	WNW	W	WNW	NW	NW
5	NW	NNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	NW	NW	NW
6	WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW
7	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW
8	W	W	NW	WNW	WNW	NW	NW	WNW	WNW	WNW	WNW	WNW
9	W	WNW	W	W	WNW	WNW	WNW	WNW	W	WNW	WNW	WNW
10	W	WSW	WSW	WNW	WNW	WNW	WNW	NW	WNW	WNW	NW	WNW
11	WNW	WNW	WNW	NW	WNW	NW	WNW	WNW	WNW	WNW	NW	NW
12	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
13	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
14	NW	NW	NNW	NNW	ENE	ENE	E	ESE	ESE	SE	Variable	NNW
15	NW	NNW	NNW	NNW	NNW	NE	NE	ENE	ESE	ESE	SSE	SW
16	WNW	WNW	WNW	NW	N	N	SE	SE	SSE	SSW	SW	SW
17	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW
18	W	NNW	NW	NE	NW	NW	Variable	Variable	NW	NW	NW	NW
19	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
20	NW	NW	NW	NW	SSE	SE	SE	SE	SE	SSE	SSW	WNW
21	NW	W	WSW	SW	S	SSE	SSE	SE	SSE	SSE	SSW	SW
22	SSE	SSE	SE	SSE	SE	SSE	SSE	SSE	SE	SE	SE	SE
23	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW
24	WSW	SW	SW	S	SSW	S	S	SSW	SSW	SSW	SW	SW
25	S	S	SSE	SSE	SSE	SSE	SSE	SSE	SSE	SSW	SSW	SW
26	SSE	SSE	SSE	SSE	SSE	SSE	SSW	SSW	SSW	SSW	SSW	SW
27	WNW	SSE	SSE	SSE	S	SE	SE	W	W	W	WNW	WNW
28	NNE	NE	ENE	ENE	NE	NE	ENE	ENE	ENE	NNE	NNW	NNW
29	ENE	NNE	NE	NE	ENE	ENE	ENE	ENE	ENE	E	ESE	NW
30	SSW	SW	SE	SE	SE	ESE	SE	SSW	SSW	SW	SW	WSW
Mean.	W	WNW	WNW	WNW	WNW	NW	WNW	WNW	W	WNW	WNW	WNW

OCTOBER.

1	S	SSE	SE	SSE	SSE	SSE	SSW	SE	SE	S	SW	SW
2	NNW	NNW	NNW	NNW	NW	WNW	E	ESE	ESE	NW	NW	NW
3	NW	NW	NNW	NNW	E	ENE	ESE	ESE	ESE	ESE	NNW	NNW
4	NNW	NW	NE	NE	NNE	NNE	NNE	ENE	E	SE	NW	NNW
5	N	N	NNW	NNW	NE	NE	NNE	NNE	NNE	E	NNW	NNW
6	ESE	N	NE	ENE	E	SE	E	ESE	ESE	SE	S	W
7	E	ESE	E	ENE	ESE	ESE	ESE	ESE	E	E	ESE	NNW
8	SSW	SSW	NW	NW	NE	ESE	E	E	E	ESE	SW	SW
9	NE	NNE	NE	NNE	NNE	NE	NE	NNE	ENE	ESE	E	NNW
10	ENE	ENE	E	ENE	NNE	NE	NE	NE	E	ENE	ENE	ESE
11	NE	NE	NE	ESE	ESE	E	ESE	SE	SE	ESE	ESE	S
12	ENE	NE	ESE	ESE	SE	SE	SE	SE	SE	SE	SE	WNW
13	NE	NE	ENE	ENE	ESE	ESE	SE	SE	E	ESE	SE	ESE
14	SE	NE	ESE	ENE	NE	ENE	NE	NE	ENE	E	E	W
15	SE	SSW	SSE	SSE	SE	SE	SE	ENE	ENE	ENE	S	Variable
16	SSE	SSE	SE	SE	SE	SE	SE	SE	SSE	SSE	SSE	SSW
17	ESE	ESE	SE	ESE	ESE	ESE	E	ESE	E	E	SE	SW
18	SSE	SSE	ESE	ENE	ESE	ESE	NE	ENE	E	SE	SE	SE
19	SE	SSE	SSE	SSE	SE	SE	SE	SE	ESE	SE	SE	SE
20	ENE	SSE	E	SSE	WSW	WSW	NW	E	E	ENE	ENE	ENE
21	SSE	SSE	SSE	SSE	SE	ESE	ESE	ESE	SSE	SE	SW	WNW
22	NNE	ESE	ESE	SE	SSE	ESE	SE	SE	SE	SE	SSE	SW
23	NNE	ENE	SSE	SE	SW	S	SSW	SSW	SW	WSW	SW	SW
24	SSE	SSE	SSE	SSE	SE	SE	SE	SE	SE	ESE	ESE	SE
25	WSW	NE	NE	ENE	SSW	S	SE	ESE	SE	E	E	E
26	E	ESE	SE	SE	SE	ESE	E	NE	NE	ENE	NNW	NNW
27	ESE	E	ESE	ESE	NE	SE	SSE	E	NNE	E	SSW	SE
28	ENE	NE	ESE	NNW	NNE	NNE	NE	NNE	ENE	ENE	ENE	ENE
29	NNE	E	SE	S	SSW	SW	SW	SW	SE	ESE	ENE	ENE
30	NE	NE	E	E	SE	SE	SE	SE	SE	ESE	ESE	E
31	NE	NE	ENE	E	E	ENE	ENE	E	E	ENE	E	W
Mean.	E	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	ESE	NW

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER.

Hours.												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
SW	NW	NW	NNW	NNW	NNW	NNW	NNW	N	N	SW	NW	NW	1
NNW	N	NNW	NNW	NNE	NNE	NE	NE	NE	NE	E	N	N	2
NNE	NNW	NNW	NNW	NNW	N	N	N	NE	ENE	ENE	SE	NNE	3
SSW	SSW	SW	WNW	N	N	NNW	NNE	NNE	NW	NW	NW	NW	4
NNW	NNW	NW	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	5
WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	6
WNW	WNW	WNW	NW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WNW	7
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	W	W	WNW	WNW	8
WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	WNW	NW	WNW	9
WNW	WNW	WNW	WNW	WNW	WNW	W	WNW	W	WNW	WNW	WNW	WNW	10
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	NW	NW	11
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	NW	NW	12
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	NW	NW	13
NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	14
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NW	NW	NW	15
SW	SW	W	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	16
WNW	WNW	WNW	WNW	WNW	WNW	NNW	NW	WNW	WNW	WNW	WSW	WNW	17
NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NW	18
NW	NW	NW	NW	NW	NW	NW	NW	NW	WNW	NNW	NW	NW	19
WNW	WNW	WNW	NW	NW	WNW	NW	WNW	WNW	WNW	WNW	W	WNW	20
SW	W	W	W	W	W	WSW	SW	SSW	SSW	SSW	SSE	SSW	21
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	SE	22
NW	NW	NW	NW	NW	NW	NW	NW	WNW	WNW	W	WSW	NW	23
SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	S	SSE	SSW	24
SW	SW	SW	SW	SW	SW	SW	SW	SW	SSW	SSW	SSE	SSW	25
SW	WSW	WSW	WSW	WSW	W	WSW	WNW	WNW	NW	W	NW	SSW	26
NW	NW	NW	NW	NW	NNW	N	N	ESE	ESE	ENE	NE	NNW	27
NNW	NNW	NNW	NNW	NNW	N	NE	NNW	NNE	NE	NE	NE	N	28
NW	NNW	NW	NW	NNW	NE	NE	ENE	ENE	ESE	SSW	S	NE	29
W	W	WNW	WNW	WNW	NW	NW	WNW	NW	NW	SE	S	SSW	30
WNW	WNW	WNW	NW	NW	NW	NW	NW	NW	WNW	WNW	WNW	WNW	Mean.

OCTOBER.

W	WNW	WNW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	NNW	W	1
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NW	WNW	W	NNW	2
NW	NNW	NNW	NNW	NNW	NNW	NNW	NW	NNW	NNW	NW	NW	NNW	3
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	N	N	N	4
NNW	NNW	NNW	NNW	SE	E	SE	ESE	ESE	NE	NE	ESE	NNE	5
NW	WNW	NW	WNW	W	SSE	SE	SE	SE	SE	ESE	E	ESE	6
NNW	NNW	NNW	NNW	NNW	NW	E	NE	SE	SE	SSE	SSW	ENE	7
W	WNW	NW	NW	NW	NW	NNW	NNW	NNW	N	N	NE	NW	8
NNW	NNW	NNW	NNW	NNW	SE	ESE	NE	SSE	NNE	NE	NE	NNE	9
ESE	E	E	ENE	N	N	NNE	NNE	NE	ENE	NE	NE	ENE	10
S	SE	NW	NNW	NNW	NNW	NNE	N	NNE	NNE	NE	ENE	NE	11
NW	NW	NW	WNW	NW	NW	NW	NNW	NNW	NNW	NNW	NE	NNE	12
E	E	NE	NNE	N	N	N	NNW	N	N	SE	SE	E	13
NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NE	NE	SE	NNE	14
NW	NNW	NNW	NNW	NNW	NNW	NNW	N	NE	N	WNW	SW	N	15
SW	SW	W	W	W	W	WSW	SE	SE	ESE	S	ESE	S	16
W	W	W	WNW	NW	NW	NNW	NNW	ESE	SE	NW	S	SE	17
W	W	W	WNW	WNW	WNW	WNW	NW	NW	NW	WSW	SSE	SE	18
WNW	NW	NW	NW	NW	NNW	NNW	NNW	NNW	N	NE	NE	E	19
NW	NW	NW	NW	WNW	NNW	NNW	NNE	ENE	NNE	NNE	ESE	NE	20
W	W	W	W	WNW	WNW	NW	E	S	SE	SE	ESE	SSE	21
WNW	WNW	W	WNW	WNW	WNW	WNW	WNW	NW	NW	WNW	WNW	W	22
W	W	W	W	WNW	WSW	SSW	S	S	SSE	SSE	SSE	SSW	23
W	WNW	WNW	WNW	NW	NW	WNW	NW	SW	WNW	NW	WNW	SSE	24
NW	NW	NW	NNW	NNW	NNW	NNW	WSW	ESE	SE	SE	SE	ENE	25
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	SE	N	26
ENE	ENE	E	NNW	NNW	N	NE	NNE	NNE	NNE	NNE	NNE	ENE	27
ENE	NW	NNW	NNW	NNW	N	N	N	N	N	NNE	N	NNE	28
NE	NE	ENE	N	N	N	N	NNE	NNE	NNE	N	NNE	NE	29
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NE	NE	NE	ENE	30
W	NW	NW	NW	NNW	NNW	N	N	NNE	NE	NE	SE	NNE	31
NW	NW	NW	NW	NNW	NNW	NNW	N	NNE	NE	NE	ESE	NE	Mean.

DIRECTION OF WIND, 1932.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER.

Date.	Hours.											
	0—1	1—2	2—3	3—4.	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12
1	ESE	ESE	ENE	E	E	E	ESE	ESE	ESE	ENE	E	ENE
2	NE	NE	ENE	NE	NNE	E	ENE	ENE	ENE	ENE	ESE	ESE
3	NE	NE	E	ESE	E	N	ENE	ENE	ENE	E	ESE	ESE
4	ENE	SE	ENE	ENE	E	E	E	ENE	NE	ENE	E	E
5	ESE	ESE	E	E	ESE	E	E	ESE	ESE	SE	ESE	NW
6	SSE	SE	SE	ENE	E	ESE	ESE	ESE	ESE	ESE	SE	SSE
7	ESE	ESE	E	E	E	E	E	ESE	ESE	SE	SE	S-E
8	NE	NE	ENE	ENE	E	ESE	ESE	SE	ENE	E	E	E
9	NE	NE	ENE	NE	ENE	ENE	E	ENE	E	E	E	E
10	NE	NE	ENE	E	ENE	E	ENE	ENE	ENE	ENE	ENE	ENE
11	NNE	NE	NE	E	ENE	E	ESE	E	E	E	E	E\E
12	ESE	NE	NE	ENE	E	ENE	ENE	ENE	E	ENE	ENE	ENE
13	ENE	ENE	E	E	ENE	E	E	ENE	ENE	ENE	ENE	E
14	ESE	ESE	ENE	ESE	ESE	ESE	ESE	ESE	ESE	E	E	E
15	NE	NE	ENE	ESE	E	ESE	ENE	ESE	ESE	E	E	E
16	NE	NE	ENE	ENE	E	ESE	ESE	ESE	ESE	E	ESE	ESE
17	NE	ESE	ENE	ENE	ENE	ESE	E	E	E	E	E	E
18	SSE	SE	SE	SE	SE	SE	SE	SE	SSE	SE	NW	NNW
19	NE	NE	NNE	NE	NNE	ENE	E	E	E	NNE	NNW	NNW
20	SE	NE	ENE	ENE	NE	NE	ENE	NNE	ENE	ENE	E	ESE
21	NE	E	ENE	E	ENE	NE	ENE	ENE	ENE	E	E	SE
22	SE	ENE	NE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ENE
23	SE	E	E	ENE	E	ENE	E	E	ESE	E	ESE	SE
24	SE	E	E	ESE	E	E	ENE	ENE	ENE	ENE	ENE	ENE
25	NE	E	E	E	E	ESE	E	E	E	ENE	ENE	ENE
26	NE	ENE	ENE	E	ENE	ENE	ENE	NNE	NNE	NNE	E	E
27	NNE	NE	NE	NE	NE	ENE	NE	NE	ENE	E	ESE	NW
28	N	NNE	ENE	ESE	E	E	E	E	E	E	ENE	E
29	E	E	E	ENE	E	SE	SSE	SE	SSE	SE	SW	W
30	NE	ENE	NE	NE	NE	E	E	ESE	SE	SE	SE	SW
Mean.	E	ENE	ENE	E	E	E	E	E	E	E	E	E

DECEMBER.

1	S	ENE	E	ENE	NNE	NNE	ENE	ESE	ENE	ENE	E	E
2	E	E	ENE	ENE	ENE	ENE	E	ESE	ESE	SE	SE	SE
3	SE	SE	ESE	E	ESE	ESE	ESE	E	E	E	E	E
4	ENE	ENE	ENE	ENE	ENE	ESE	E	E	E	E	E	NNW
5	NE	NE	E	E	E	ENE	ENE	ENE	ENE	ENE	E	E
6	SE	SE	SE	SE	NE	NE	E	ESE	ENE	ENE	NNW	NNW
7	SE	SE	SE	SE	ENE	NE	E	E	ESE	ESE	E	SSE
8	SSE	SSE	SSE	NE	E	E	E	ENE	NNE	E	E	ESE
9	NNE	NNE	ENE	ESE	ESE	ENE	ENE	E	ESE	E	E	ESE
10	ENE	SE	NE	ESE	E	E	ENE	ESE	ESE	ESE	ESE	ESE
11	SE	SE	E	E	E	E	ESE	ESE	SE	SE	ESE	E
12	E	ESE	E	SE	SE	SE	SE	SE	SE	SE	ESE	E
13	ENE	ENE	E	ESE	ESE	ESE	ESE	SE	SE	SE	SE	SE
14	NNE	NNE	NE	ENE	NE	ENE	ENE	ENE	E	ESE	ESE	E
15	ENE	ENE	NE	NE	NE	NE	ENE	E	E	E	ESE	ESE
16	NE	ESE	E	NE	NE	ENE	ENE	E	E	E	E	E
17	ENE	SE	ESE	ESE	ESE	E	E	E	E	ENE	ENE	ENE
18	SE	SE	ENE	ENE	E	ESE	ESE	SE	SE	E	ESE	SSW
19	ESE	ESE	ESE	E	ESE	SE	ESE	ESE	SE	ESE	E	E
20	ESE	ENE	ENE	ESE	E	ESE	ESE	ESE	ESE	ESE	E	ENE
21	ESE	ENE	ENE	ESE	ENE	ESE	ESE	ENE	E	SE	ENE	E
22	ENE	E	ENE	E	ESE	ESE	ESE	ESE	E	ESE	E	W
23	SE	SE	E	E	ESE	SE	E	SE	SE	SE	SE	SSW
24	SE	SE	SE	SE	ESE	SE	SE	SE	SE	SE	ESE	SE
25	NNE	NE	ENE	NE	E	E	E	ENE	ENE	ENE	ENE	E
26	NE	NE	NNE	NE	NE	ENE	ENE	ENE	E	ENE	E	NNW
27	NE	NE	NNE	NE	NE	NNE	NE	NE	NE	ENE	ENE	NNW
28	NNE	NNE	NNE	NE	NE	NE	NE	ENE	ENE	ENE	NNW	NNW
29	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	N	N
30	NE	NNE	NE	NE	NE	NNE	NE	NE	NNE	NNE	NE	N
31	ENE	E	E	ESE	E	ENE	E	ENE	ENE	E	ESE	SE
Mean.	E	E	ENE	E	E	E	E	E	E	E	E	ENE

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER.

Hours.												Mean.	Date.
12—13	13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		
ENE	ENE	ENE	NE	N	NNW	NNW	NNW	NNE	NNE	NNE	NNE	ENE	1
SE	NW	NW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	NNE	2
ESE	NW	NNW	NNW	NNW	NNW	N	N	N	N	NNE	NE	NNE	3
NNW	NNW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	E	SE	NNE	4
NW	NW	NW	NW	NW	NW	NW	NW	NW	SE	SE	SE	E	5
SSE	SW	WNW	WNW	WNW	NW	NNW	N	ESE	E	SE	SE	SE	6
SSE	W	W	NW	NW	NNW	NNW	NNW	NNE	NNE	NNE	NE	E	7
SE	NW	NW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	NE	NE	8
SE	SE	NW	NW	NNW	NNW	NNW	NNW	NNE	NNE	NE	NNE	NE	9
E	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	NE	SE	NE	10
ENE	NE	NNE	NNW	NNW	NNW	N	N	NNE	NNE	NE	NNE	NE	11
ENE	E	NW	NW	NNW	NNW	NNW	NNE	NNE	NNE	NE	SE	NE	12
E	NW	NW	NNW	NNW	NNW	NNW	N	NNE	SE	SE	SE	NE	13
ESE	NW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	ESE	ESE	ENE	14
E	NW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	NE	E	NE	15
NW	NW	NW	NW	NNW	NNW	N	N	NNE	NNE	NE	ENE	NE	16
NW	NW	NW	NW	NW	NNW	NNW	NNW	NNE	N	NNE	NNE	NE	17
NNW	NNW	NW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNE	NNE	N	18
NW	NW	NNW	NNW	NNW	N	N	N	N	NNE	E	SE	N	19
NW	NW	NW	NNW	NNW	NNW	N	NNE	NNE	NNE	ESE	E	NNE	20
S	WNW	NW	NW	NW	NNW	NNW	N	N	N	NNE	NE	NNE	21
NE	E	NW	NNW	NNW	NNW	NNE	NNE	NNE	NNE	E	ENE	NE	22
ENE	E	E	NNW	NNW	NNW	N	NNE	NNE	NNE	E	NE	ENE	23
ENE	NE	NE	NNW	NNW	NNW	NNE	NNE	NNE	NNE	NE	NE	NE	24
ENE	ENE	W	NW	NNW	NNW	NNW	N	NNE	NE	NNE	NNE	NE	25
Variable	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	NNE	NNE	26
NW	NNW	NNW	NNW	N	N	N	N	N	N	N	N	NNE	27
ESE	NNW	NNW	NNW	NNW	NE	NNE	NNW	NNE	SE	NE	ENE	NE	28
W	W	W	WNW	WNW	NW	NNW	N	NNE	NE	NE	E	E	29
W	WNW	WNW	WNW	NW	NW	NW	NNW	ENE	NE	SE	SE	NNE	30
ENE	NNW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	NE	ENE	NE	Mean.

DECEMBER.

E	ESE	NW	NW	ENE	ENE	ENE	ENE	ENE	ENE	ENE	ESE	ENE	1
SE	SE	NW	NNW	NNW	NNW	N	N	N	NNE	NNE	NNE	NE	2
E	NW	NNW	NNW	NNW	N	N	N	NNE	NNE	E	ENE	NE	3
NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	E	SE	NNE	4
NW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	SE	SE	NNE	5
NNW	NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	NNE	ENE	NNE	6
WNW	NW	NW	NW	NNW	NNW	NNW	N	N	N	N	NE	NNE	7
NNW	NNW	NNW	NNW	NNW	N	N	N	NNE	NNE	NNE	ESE	NNE	8
NW	NW	NNW	NNW	NNW	NNW	NNW	N	NNE	NE	E	SE	NNE	9
ESE	WNW	NW	NW	NNW	NNW	NNW	NNW	NNW	ENE	NNE	NE	NE	10
NW	NW	NW	NNW	NNW	NNW	NNW	N	NNE	NE	NNE	NE	NE	11
SE	Variable	ENE	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	NNE	ENE	12
ESE	NW	NW	NW	NW	NNW	NNW	N	NNE	NNE	NNE	NNE	NE	13
SE	ESE	NNW	NNW	NNW	NNW	NNW	NNE	NNE	NE	NE	ENE	NE	14
E	E	ESE	NW	NW	NNW	NNW	N	N	N	N	NNE	NE	15
E	WNW	WNW	NW	NW	NNW	NNW	N	N	NNE	NE	ENE	NE	16
ENE	ENE	ENE	ENE	NNW	N	N	N	NNE	NE	ESE	SE	ENE	17
Variable	NW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	ENE	ENE	18
E	NNW	NNW	NNW	NNW	NNW	NNW	NNE	NNE	NNE	E	ESE	ENE	19
ENE	NW	NW	NNW	NNW	NNW	NNW	N	NNE	ENE	SE	SE	ENE	20
E	E	E	NW	NW	NNW	N	NNE	NNE	NNE	ENE	ENE	ENE	21
W	W	W	WNW	WNW	WNW	WNW	WNW	SW	ESE	SE	SE	ESE	22
SW	WNW	WNW	NW	NW	NW	NW	NW	NW	NW	NW	NW	NNW	23
NNW	NNW	NNW	NNW	NNW	NW	NW	NNW	NE	NE	NNE	NNE	E	24
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	NE	NE	NNE	25
NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	NNE	NNE	NNE	26
NNW	NNW	NNW	NNW	NNW	N	N	NNE	NNE	NNE	NNE	NE	NNE	27
NNW	NNW	NNW	NNW	NNW	NNW	NNW	NNW	N	NNW	NNW	NNE	N	28
N	N	N	N	N	N	NNE	NNE	NNE	NNE	NE	NE	NNE	29
N	N	N	N	N	N	N	N	N	N	NNE	NE	NNE	30
SE	WNW	WNW	WNW	WNW	NW	NNW	NNW	NE	NE	ESE	ESE	ENE	31
N	NNW	NNW	NNW	NNW	NNW	NNW	N	NNE	NNE	NE	ENE	NE	Mean.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

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Date.	Hours: 0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	70·7	70·3	70·0	70·5	70·5	70·3	69·7	70·5	71·8	73·1	75·1	77·1	78·0	78·7	78·8
2	72·0	71·4	70·6	70·5	71·0	70·3	70·7	71·1	72·3	73·5	75·6	76·8	78·8	79·5	80·3
3	72·3	72·5	71·8	71·7	71·0	70·6	70·2	70·9	72·2	73·8	76·1	77·7	80·4	81·3	81·3
4	73·0	72·3	72·3	71·7	70·7	70·5	70·5	70·7	71·8	73·4	75·4	77·4	79·4	79·7	80·4
5	72·8	72·3	71·9	71·5	71·3	71·1	69·5	69·8	72·5	73·8	75·7	77·5	79·7	80·3	81·3
6	73·2	72·7	72·0	71·7	70·9	70·7	70·7	71·3	72·8	74·4	76·4	78·0	80·2	81·2	81·5
7	74·0	73·4	72·5	72·5	72·3	72·2	71·7	72·3	73·7	75·5	77·6	79·5	82·6	83·8	83·5
8	73·6	73·3	72·4	72·4	72·4	72·1	71·4	71·7	73·6	76·0	79·0	80·7	81·3	81·7	82·0
9	74·2	74·0	73·4	72·6	72·3	71·6	70·6	71·2	73·0	74·3	76·5	78·8	80·3	82·4	82·5
10	73·6	72·8	72·6	72·7	71·5	70·6	70·5	71·9	73·0	75·0	77·5	79·7	81·3	82·2	82·3
11	73·2	72·5	71·7	73·0	73·3	72·5	72·3	72·3	73·6	75·6	78·0	80·0	82·2	82·6	83·2
12	72·4	72·1	72·5	72·6	72·1	71·0	70·7	72·0	73·3	74·6	77·0	79·0	81·5	82·7	83·8
13	72·8	73·5	73·5	73·1	73·1	72·8	72·4	73·1	74·0	76·3	78·9	80·4	82·7	84·3	83·9
14	73·4	72·7	73·3	72·2	71·8	71·7	71·3	72·0	73·2	75·1	77 8	79·8	82·0	81·4	85·1
15	73·4	73·3	72·6	72·2	71·7	71·4	71·3	71·8	73·8	75·2	77·0	79·3	82·8	84·1	83·7
16	72·6	72·8	72·1	71·1	71·2	71·4	71·6	71·6	72·6	75·2	79·0	81·0	82 7	83·2	82·4
17	73·3	72·6	72·3	72·6	71·8	71·0	71·8	72·1	73·9	76·0	78·6	81·3	82·5	82·6	82·6
18	74·5	73·4	72·8	72·2	73·2	72·6	72·4	72·7	74·2	76·2	78·5	80·9	84·5	84·7	84·6
19	73·1	73·2	72·5	73·0	72·7	72·4	72·4	72·6	74·0	76·0	78·7	81·9	84·6	86·3	87·6
20	75·0	74·3	73·9	73·5	73·3	72·7	72·3	72·6	74·2	76·3	79·4	81·8	84·5	86·2	85·5
21	73·6	73·4	74·3	72·9	72·3	72·0	72·4	72·7	73·8	75·4	78·3	80·4	83·4	85·3	84·2
22	73·9	74·2	73·8	73·5	72·8	72·4	71·7	72·0	74·2	76·3	78·5	80·5	83·6	83·8	83 7
23	74·3	73·7	74·2	73·5	73·2	73·2	72·2	72·6	74·5	76·5	79·7	82·4	85·5	88·0	87·7
24	74·4	74·8	74·6	73·9	73·6	73·5	72·7	73·4	75·2	76·7	79·4	81·1	83·4	84·4	85·2
25	74·6	74·2	74·4	74·3	73·4	73·4	72·7	73·0	74·4	76·2	79·2	81·2	84·1	86·5	85·7
26	75·7	75·5	75·3	74·6	73·6	73·0	72·6	73·3	75·2	77·1	79·7	81·9	85·0	87·3	86·5
27	75·2	74·6	74·4	74·0	73·3	71·7	71·7	73·2	74·1	76·0	79·2	82·1	85·5	86·2	86·0
28	76·6	76·0	75·1	74·3	73·7	73·3	72·1	73·3	74·8	76·6	79·1	81·3	83·0	84·3	84·4
29	74·0	72·8	72·7	71·8	72·2	72·4	71·5	72·2	74·4	76·0	78·4	81·5	84·7	84·6	84·2
30	74·4	73·8	73·7	73·6	72·7	71·6	72·2	72·6	74·0	76·2	78·7	81·3	84·8	85·3	85·4
31	76·4	75·6	74·9	74·3	74·3	73·8	72·8	73·3	75·0	76·9	79·0	81·5	82·5	83·0	83·2
Mean	73·7	73·4	73·0	72·7	72·4	71·9	71·6	72·1	73·6	75·5	78·0	80·1	82·5	83·6	83·6
Variation	−3·0	−3·3	−3·7	−4·0	−4·3	−4·8	−5·1	−4·6	−3·1	−1·2	+1·3	+3·4	+5·8	+6·9	+6·9
Mean in °C.	23·2	23·0	22·8	22·6	22·4	22·2	22·0	22·3	23·1	24·2	25·6	26·7	28·1	28·7	28·7
Variation in °C.	−1·7	−1·9	−2·1	−2·3	−2·5	−2·7	−2·9	−2·6	−1·8	−0·7	+0·7	+1·8	+3·2	+3·8	+3·8

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1	74·6	74·5	72·8	72·6	73·1	72·6	72·5	72·8	73·8	75 6	77·4	80·1	81·7	82·5	82·4
2	74·2	74·3	74·0	73·6	73·8	73·5	73·0	73·2	74·2	75·2	77·3	79·1	80.4	81·1	80·7
3	73·0	72·5	71·5	71·2	70·8	71·0	71·2	71·7	73 6	75 0	77·0	78·2	79·4	79·8	79·6
4	71·5	70·7	70·1	69·8	69·5	69·6	70·3	71·0	72·0	74 0	76·3	77·5	77·8	78·2	78·3
5	70·4	70·4	70·2	69·8	69·6	69·2	68.8	69·4	70·7	72·5	75·0	77·2	79·3	80·0	80·2
6	71·2	71·1	71·6	71·5	71·2	70·5	70·2	70·7	72·1	73·6	76·0	77·6	79·5	80·1	79·9
7	75·1	75·0	74·2	73·5	72·7	72·5	72·4	72·7	74·0	75·9	78·2	79·8	80·5	81·3	81·8
8	76·0	75·7	75·4	75·0	74·6	74·5	74·4	74·4	74·9	76·4	78·3	79·3	80·4	81·0	81·1
9	72·9	72·7	72·0	71·3	70·6	70·1	69·0	69·1	72·4	76·0	78·3	80·3	81·7	82·7	82·8
10	72·4	71·2	69·7	69·3	68·5	67·8	67·7	68·6	72·8	75·0	77·8	79·4	81·3	81·5	81·5
11	70·3	71·1	70·7	70·5	70·5	71·2	71·4	71·8	73·6	75·1	77·2	79·2	80·6	80·5	80·7
12	74·1	72·0	71·7	71·4	71·4	71·5	71·5	71·7	73·5	75·1	77·8	79·3	80·7	81·0	80·6
13	71·5	71·5	71·0	70·3	70·5	70·5	71·1	71·6	73·0	75·0	77·6	80·0	80·4	80·5	80·7
14	74·0	72·6	72·0	72·0	71·7	71·6	71·5	72·0	74·0	76·0	78·2	79·3	80·2	80·2	80·0
15	72·4	71·8	71·3	70·7	69·5	67·7	66·7	67·5	71·0	75·0	77·4	79·7	81·8	81·5	82·0
16	72·6	73·9	73·7	73·4	72·6	72·5	72·4	72·8	74·5	77·2	79·7	82·6	85·8	87·4	88·7
17	75·3	74·5	73·7	73·4	73·4	72·8	72·7	74·2	75·9	77·5	79·7	83·1	83·4	84·4	84·5
18	75·5	75·0	73·8	74·0	74·5	73·7	73·2	74·0	75·8	78·0	79·5	80·8	81·7	82·1	82·0
19	76·3	75·7	75·4	74·8	74·4	74·5	74·3	74·0	75·2	76·5	77·5	78·5	79·1	79·6	79·8
20	70·5	70·5	69·6	70·3	70·2	68·8	68.5	69·1	71·3	73·3	76·2	78·7	81·4	83·7	82·3
21	70·5	71·0	71·4	71·2	69·7	68·9	68·8	69·8	72·5	74·9	77·3	79·8	82·6	81·7	81·8
22	72·1	70·5	70·7	70·6	69·8	69·2	68·9	69·5	72·4	74·2	76·8	78·8	80·4	82·0	82·5
23	72·6	73·6	73·3	73·3	73·4	72·6	72·1	72·4	74·2	76·2	78·3	79·6	81·1	81·5	81·5
24	74·6	74·7	74·2	73·6	73·3	72·6	72·5	72·8	74·2	76·2	78·6	79·6	80·2	81·0	81·4
25	75·1	75·0	75·3	75·4	74·5	74·3	74·0	74·4	75·5	77·1	79·3	80·0	81·0	81·7	82·5
26	75·6	76·3	76·2	75·5	75·3	75·0	74·5	75·4	76·5	77·6	79·7	80·8	81·6	82·4	82·7
27	76·6	76·4	75·7	75·6	75·5	74·7	74·7	74·8	75·6	77·5	79·7	80·7	81·4	82 1	82·3
28	75·0	74·1	72·9	72·6	72·6	72·5	72·3	73·4	75·2	76·8	77·8	78·7	79·8	80·6	80·8
29	71·6	71·7	71·4	71·3	70·7	70·7	70·1	71·0	73 9	75·8	77·5	78·7	80·2	80 8	81·6
Mean	73·4	73·1	72·6	72·3	72·0	71·6	71·4	71·9	73·7	75·7	77·8	79·5	80·9	81·5	81·6
Variation	−2·6	−2·9	−3·4	−3·7	−4·0	−4·4	−4·6	−4·1	−2·3	−0·3	+1·8	+3·5½	+4·9	+5·5	+5·6
Mean in °C	23·0	22·8	22·6	22·4	22·2	22·0	21·9	22·2	23·2	24·8	25·4	26·4	27·2	27·5	27·6
Variation in °C.	−1·4	−1·6	−1·8	−2·0	−2·2	−2·4	−2·5	−2·2	−1·2	−0·1	+1·0	+2·0	+2·8	+3·1	+3·2

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

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Hours.										Mean.		Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		°F.	°C	Time.	Mag.	Time.	Mag.	
												H. M.		H. M.		
78·7	77·6	76·3	75·5	75·3	75·0	74·5	73·1	72·4		73·9	23·3	14 20	79·4	2 8	69·5	1
80·1	79·1	77·5	76·4	75·5	75·1	74·5	73·6	73·2		74·6	23·7	14 55	80·6	3 10	70·4	2
81·5	80·6	79·1	77·8	77·0	75·8	75·4	74·5	74·0		75·4	24·1	13 15	82·0	6 40	69·9	3
80·4	79·3	77·8	76·4	75·9	74·4	74·1	73·8	73·0		74·8	23·8	14 56	80·7	5 4	70·4	4
81·2	80·0	78·5	77·4	76·7	76·2	75·4	73·7	72·6		75·1	23·9	14 50	81·6	6 40	69·3	5
81·3	80·2	78·6	77·4	76·8	76·3	75·1	74·9	74·8		75·5	24·2	15 4	81·8	5 0	70·5	6
83·0	81·8	80·0	78·4	77·0	75·6	75·3	74·7	74·5		76·6	24·8	13 56	84·4	6 27	71·5	7
82·0	81·1	76·6	78·2	76·8	75·5	75·0	75·0	74·6		76·2	24·6	14 55	82·3	6 35	71·3	8
82·1	81·1	79·3	77·8	77·3	76·4	75·6	74·5	73·8		76·1	24·5	14 28	82·7	6 45	70·4	9
82·1	81·2	79·6	77·8	77·4	76·5	75·5	74·4	74·0		76·1	24·5	14 12	82·6	6 40	70·2	10
83·1	81·5	79·6	78·3	77·6	77·0	75·6	73·6	73·0		75·5	24·7	15 15	83·6	2 48	71·5	11
83·3	82·1	80·1	78·5	77·6	77·0	76·1	74·7	73·8		76·3	24·6	14 45	84·4	6 30	70·3	12
83·4	82·1	80·0	78·6	77·6	77·0	76·2	74·2	73·7		77·0	25·0	13 52	84·9	6 38	72·2	13
84·4	82·7	80·5	79·0	78·2	77·4	76·6	74·7	73·6		76·8	24·9	14 28	85·7	6 50	70·9	14
83·3	81·5	80·0	78·3	77·5	76·8	75·4	73·3	72·7		76·3	24·6	13 36	84·5	5 15	71·1	15
81·9	81·1	79·5	78·5	78·0	77·4	76·4	74·6	73·7		76·3	24·6	13 52	83·8	3 45	70·7	16
82·5	81·3	79·8	78·4	77·8	77·0	76·2	75·4	75·5		76·6	24·8	13 50	82·8	6 0	70·7	17
84·5	83·2	81·3	79·4	78·4	77·5	76·2	74·6	73·6		77·3	25·2	13 20	85·4	3 32	72·0	18
86·5	83·0	80·8	79·4	78·7	78·4	77·9	76·2	75·0		77·8	25·4	15 7	88·1	5 32	72·3	19
84·2	82·7	80·8	79·4	78·7	78·0	76·8	74·8	74·3		77·7	25·4	13 52	86·6	6 40	72·0	20
83·6	82·3	80·6	79·4	78·6	77·5	76·1	74·6	74·3		77·1	25·1	13 50	85·6	5 20	71·7	21
83·2	81·7	80·0	78·6	78·0	77·2	76·2	74·1	75·1		77·1	25·7	14 15	84·5	6 6	71·5	22
86·9	84·7	82·4	80·3	78·8	78·1	77·0	74·8	74·5		78·3	25·5	14 2	89·0	7 2	71·9	23
85·1	83·6	81·8	79·9	78·8	77·6	76·7	75·4	75·6		77·9	25·6	14 57	85·5	6 50	72·3	24
84·6	83·1	81·4	79·9	79·2	77·6	76·6	76·7	76·6		78·0	25·6	13 52	87·2	6 45	72·5	25
85·2	83·4	81·5	79·8	79·1	78·0	76·7	75·6	75·8		78·4	25·8	13 25	87·7	6 42	72·2	26
85·5	84·2	82·3	80·7	79·3	77·9	76·6	76·2	77·1		78·2	25·7	12 54	87·3	6 0	71·4	27
84·2	82·8	81·0	79·3	78·7	77·5	76·5	74·7	73·8		77·8	25·4	14 37	85·1	6 32	71·6	28
84·3	83·3	81·4	79·5	78·5	77·7	76·7	75·7	74·7		77·3	25·2	12 57	85·8	6 40	71·3	29
85·5	83·6	81·7	79·8	78·9	77·4	76·6	77·0	76·7		77·8	25·4	15 4	86·0	5 20	71·4	30
83·3	82·5	80·8	79·2	78·2	77·3	77·2	76·4	75·6		77·8	25·4	14 54	83·7	6 50	72·4	31
83·3	81·9	80·0	78·6	77·8	76·9	76·0	74·9	74·4		76·7	24·8					Mean.
+6·6	+5·2	+3·3	+1·9	+1·1	+0·2	−0·7	1·8	−2·3								Variation.
28·5	27·7	26·7	25·9	25·4	24·9	24·4	23·8	23·6								Mean in °C
+3·6	+2·8	+1·8	+1·0	+0·5	0·0	−0·5	−1·1	−1·3								Variation in °C

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81·7	80·6	79·0	77·7	76·8	75·3	75·4	75·4	74·3		76·5	23·0	13 48	83·1	6 26	72·3	1
80·7	79·9	78·2	76·7	76·3	75·8	75·4	75·1	74·0		76·2	22·8	13 50	81·6	7 0	72·8	2
79·4	78·0	76·4	75·1	74·6	74·5	74·4	73·5	72·6		74·7	22·6	13 58	80·1	5 0	70·5	3
78·3	77·3	76·0	74·8	74·4	74·0	73·4	71·5	70·4		72·6	22·4	13 20	79·0	4 46	69·4	4
80·0	78·8	77·0	75·4	74·7	74·3	73·4	72·8	72·2		73·8	22·2	13 54	80·6	6 26	68·6	5
79·7	78·7	77·0	75·5	75·5	75·5	75·4	75·3	75·3		74·8	22·0	13 24	80·6	6 45	69·7	6
82·2	81·5	80·1	78·7	78·1	77·5	77·1	76·6	76·4		77·0	21·9	15 15	82·6	6 10	7 3	7
81·1	80·2	78·7	77·3	76·7	76·5	76·3	75·4	74·3		77·0	22·2	14 48	81·5	23 58	73·5	8
82·7	81·5	79·8	78·2	77·4	76·5	76·2	74·4	72·8		75·9	22·2	14 20	83·4	7 8	68·5	9
81·2	80·4	78·7	76·7	76·1	75·7	74·5	72·4	71·3		74·6	24·3	13 45	82·1	6 52	67·5	10
80·6	80·0	78·4	76·0	76·3	75·5	74·0	74·2	74·4		75·2	25·4	14 35	81·0	0 45	70·1	11
80·4	79·5	77·6	77·5	75·5	75·0	74·6	73·8	72·7		75·4	26·4	13 0	81·4	4 20	71·2	12
80·5	79·2	77·5	76·0	75·6	75·4	74·8	74·6	74·4		75·1	23·9	14 0	81·2	3 40	70·2	13
79·1	78·4	76·7	77·5	76·0	75·9	75·3	74·9	73·4		75·5	24·2	12 52	80·7	5 50	71·4	14
81·7	80·2	78·6	79·0	77·4	76·7	76·3	75·0	73·5		75·1	23·9	12 30	82·6	6 42	66·4	15
88·1	83·5	80·6	79·8	78·2	77·3	77·0	76·3	75·7		78·1	25·6	15 15	89·7	0 18	71·6	16
84·6	83·5	81·7	78·7	78·9	78·1	77·2	76·3	75·8		78·1	25·6	15 15	85·0	5 58	72·5	17
81·8	81·5	80·0	75·9	78·1	77·5	77·2	76·7	76·6		77·6	25·3	15 20	82·5	6 35	73·0	18
79·4	78·6	77·0	76·8	75·5	75·2	74·3	72·7	72·2		76·1	24·5	14 15	80·5	23 58	71·4	19
81·3	80·1	78·3	76·2	76·5	76·3	75·5	74·0	72·1		74·8	23·8	13 40	84·6	6 28	68·4	20
81·4	79·7	78·1	77·6	76·5	76·2	75·4	73·4	72·1		75·0	23·9	13 3	82·7	6 20	68·5	21
82·3	80·5	78·7	78·0	76·8	76·5	76·1	74·8	73·9		75·2	24·0	14 36	82·7	6 40	68·5	22
81·5	81·2	79·5	78·0	77·0	75·6	75·5	75·6	75·0		76·4	24·7	13 23	81·7	6 36	71·8	23
81·3	80·5	79·4	78·0	77·5	77·0	76·0	75·4	75·2		76·7	24·8	14 22	81·5	6 25	72·4	24
82·4	81·9	80·6	79·2	78·6	77·5	76·5	76·3	75·7		77·7	25·4	14 58	83·0	6 38	73·9	25
82·9	82·0	80·4	79·0	78·3	77·5	76·6	77·2	77·2		78·2	25·7	15 15	83·5	6 48	74·2	26
82·2	81·3	79·6	78·5	78·0	77·4	76·7	76·2	75·5		77·9	25·5	14 25	82·8	5 50	74·4	27
80·5	79·8	77·7	76·3	75·5	74·7	73·7	72·6	72·5		75·8	24·3	14 4	81·3	6 30	72·2	28
81·7	80·3	79·1	77·6	77·1	76·0	75·4	74·5	74·3		75·5	24·2	15 15	82·0	6 30	70·0	29
81·4	80·3	78·6	77 2	76·7	76·1	75·5	74·7	74·0		76·0	24·4					Mean.
+5·4	+4·3	+2·6	+1·2	+0·7	+0·1	−0·5	−1·3	−2·0								Variation.
27·4	26·8	25·9	25·1	24·8	24·5	24·2	23·7	23·3								Mean in °C.
+3·0	+2·4	+1·5	+0·7	+0·4	0·1	−0·2	−0·7	−1·1								Variation in°

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN DEGREES FAHRENHEIT.)

Date.	Hours.															
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	74·6	74·3	74·8	75·5	74·4	73·5	73·3	74·1	76·2	79·0	81·1	82·9	83·6	83·7	84·5
2	77·3	76·4	75·7	75·2	74·5	74·3	73·7	75·2	77·7	78·6	81·3	82·6	83·6	84·5	84·7
3	76·4	76·5	76·5	76·2	76·0	76·2	75·6	76·2	77·8	80·1	82·4	86·4	88·2	88·3	88·3
4	79·4	78·5	78·3	78·4	78·2	77·5	77·8	79·0	80·7	82·5	84·3	87·4	88·2	90·0	90·0
5	79·4	78·5	78·1	77·7	77·8	77·5	77·3	77·3	80·5	83·1	85·0	86·7	88·0	88·6	88·0
6	78·4	77·9	77·8	77·3	76·5	76·4	76·2	77·5	79·7	82·0	86·2	89·2	91·7	90·7	89·4
7	78·7	78·6	77·5	76·4	76·5	76·4	76·0	77·4	79·7	81·5	84·9	88·8	89·7	89·6	90·4
8	80·3	79·7	78·5	78·5	77·6	75·6	75·7	78·3	79·4	81·3	83·5	85·8	88·3	87·6	86·6
9	79·5	78·6	79·4	80·1	79·1	77·6	77·5	78·3	79·8	82·0	84·5	84·9	85·5	84·7	84·6
10	76·7	76·5	76·4	76·0	76·3	76·0	75·5	77·3	79·4	81·0	83·3	85·1	85·5	85·4	85·1
11	78·0	77·8	77·5	77·0	76·3	75·5	75·4	76·3	78·4	80·8	83·4	83·7	85·2	85·5	84·6
12	77·7	77·1	76·2	75·1	74·6	74·5	74·2	74·9	77·4	80·9	83·2	84·7	85·7	86·0	85·7
13	75·4	74·5	75·4	74·4	73·5	72·5	72·4	73·8	77·0	79·4	81·3	82·7	84·1	84·6	84·5
14	75·0	75·3	76·3	76·4	76·0	73·7	73·5	75·0	77·9	80·0	82·7	83·6	84·4	84·4	84·0
15	73·8	75·8	75·5	74·8	74·1	73·4	73·3	75·2	77·8	80·3	81·9	82·4	83·5	84·0	84·1
16	76·4	76·3	76·2	76·0	75·3	75·0	74·8	76·4	78·2	79·5	80·7	81·9	83·0	83·7	83·5
17	76·7	76·2	75·6	74·8	74·1	74·4	74·6	75·8	77·8	79·5	80·2	81·5	83·0	83·6	83·4
18	76·6	76·5	76·5	76·1	75·5	75·2	75·3	76·7	78·8	80·1	82·0	83·6	83·7	84·1	83·6
19	77·2	77·5	77·3	76·7	76·5	76·1	75·7	77·4	79·5	81·0	82·7	83·7	84·6	85·5	85·5
20	77·6	77·2	76·7	77·3	77·2	76·6	76·2	78·0	79·5	81·1	81·7	82·7	83·6	84·6	84·6
21	77·7	77·6	77·4	76·7	76·5	76·3	75·6	77·3	79·7	81·2	82·0	82·5	82·6	83·0	83·4
22	77·4	77·1	76·8	76·5	76·1	75·7	75·6	77·0	79·3	80·9	82·2	82·7	83·6	83·7	83·7
23	77·5	77·4	77·4	77·0	76·3	76·4	77·1	77·6	79·2	80·7	81·8	83·0	83·7	84·6	84·7
24	77·8	77·7	77·5	77·5	77·2	76·3	75·6	77·3	79·5	82·0	83·1	83·6	84·1	83·6	83·5
25	77·0	76·4	76·4	76·6	76·7	76·6	75·7	77·1	79·0	81·3	81·8	83·2	84·7	84·7	83·7
26	77·4	76·5	75·6	75·5	75·5	75·5	75·5	77·0	79·3	81·3	83·5	83·6	84·6	84·2	84·6
27	78·3	78·4	77·6	77·5	76·5	76·4	76·0	77·2	80·0	81·5	83·5	84·2	84·8	85·4	85·5
28	78·5	78·3	77·7	77·0	76·0	76·5	77·0	78·4	80·5	82·0	83·7	83·9	84·5	85·6	85·4
29	79·3	79·2	78·2	77·5	77·0	77·6	77·6	79·0	81·0	83·0	84·6	85·5	86·1	86·0	85·7
30	79·3	79·2	78·2	77·6	77·7	77·7	77·3	79·0	81·7	83·2	86·4	86·5	87·2	87·2	86·5
31	79·7	79·4	78·8	78·7	78·3	78·2	78·5	79·2	81·2	83·4	85·1	85·5	86·5	86·5	87·6
Mean .	77·6	77·3	77·0	76·7	76·3	75·8	75·7	77·0	79·1	81·1	83·0	84·3	85·3	85·6	85·5
Variation .	−2·7	−3·0	−3·3	−3·6	−4·0	−4·5	−4·6	−3·3	−1·2	+0·8	+2·7	+4·0	+5·0	+5·3	+5·2
Mean in °C .	25·3	25·2	25·0	24·8	24·6	24·3	24·3	25·0	26·2	27·3	28·3	29·1	29·6	29·8	29·7
Variation in °C.	−1·5	−1·6	−1·8	−2·0	−2·2	−2·5	−2·5	−1·8	−0·6	+0·5	+1·5	+2·3	+2·8	+3·0	+2·9

APRIL.

1	79·2	79·4	79·6	79·4	79·4	79·4	79·5	80·0	82·2	84·2	85·2	86·1	87·0	87·4	87·7
2	79·6	79·6	79·4	78·5	77·5	77·3	77·3	78·9	81·4	84·0	87·0	87·7	89·1	89·4	89·3
3	81·5	80·8	80·6	80·2	79·6	79·5	79·7	81·3	82·8	84·2	84·8	85·0	86·2	86·2	86·0
4	79·7	79·6	79·3	79·0	78·7	78·9	79·3	80·1	81·9	83·5	84·5	85·4	85·6	86·3	86·3
5	79·9	79·5	79·1	78·6	78·4	78·1	78·6	80·3	81·3	82·5	83·3	83·7	84·6	85·0	85·0
6	79·3	79·1	78·7	78·8	78·5	78·3	78·6	79·8	81·8	82·5	83·7	84·2	86·5	86·5	86·7
7	79·3	79·2	79·1	78·7	77·8	77·6	78·0	79·2	81·3	82·5	83·6	84·6	85·5	85·0	84·7
8	79·3	79·0	78·7	78·5	78·2	78·0	78·1	79·3	81·2	82·5	84·3	84·5	84·8	85·4	85·4
9	79·0	79·0	79·2	78·8	78·5	77·6	77·6	79·2	80·4	81·8	83·5	84·4	84·5	84·6	84·4
10	80·4	80·4	80·1	80·0	79·9	79·1	79·0	81·0	83·3	85·3	85·7	86·5	86·6	87·6	87·6
11	81·5	81·5	81·4	81·4	81·1	80·7	81·0	82·2	83·5	85·4	85·8	86·4	87·2	87·5	87·0
12	81·4	81·3	81·0	80·7	80·5	80·5	80·6	81·6	84·0	85·5	85·7	86·4	86·7	87·2	87·2
13	80·6	80·5	80·0	80·0	79·9	79·5	80·2	81·2	83·2	84·7	85·6	86·8	87·6	87·3	87·4
14	81·1	80·6	80·5	80·5	80·6	80·5	80·9	82·3	82·5	84·4	85·8	86·4	87·0	86·8	86·5
15	79·5	79·5	79·4	79·2	79·1	79·0	79·2	80·8	82·7	84·1	85·2	86·4	86·5	86·5	86·6
16	80·5	81·3	80·0	79·7	79·6	79·6	80·3	81·7	82·8	84·5	85·6	86·3	86·6	86·6	86·5
17	81·1	81·0	80·5	80·5	80·5	80·5	80·7	82·4	84·0	85·4	86·5	87·0	87·3	87·5	87·2
18	79·5	79·4	78·8	78·2	77·6	77·6	77·8	79·8	82·1	83·2	84·5	85·2	86·1	86·7	86·0
19	79·6	79·4	79·3	79·2	78·6	78·3	78·4	80·3	81·6	83·3	84·8	85·8	86·6	86·5	86·1
20	80·4	80·0	79·5	79·3	78·8	78·5	79·3	80·6	82·5	83·6	85·3	86·3	86·6	86·6	86·5
21	79·5	79·4	79·2	79·1	78·6	78·5	78·9	80·5	82·2	83·6	84·5	85·2	86·2	86·0	85·3
22	79·5	79·2	78·7	78·7	78·7	78·4	78·3	80·2	81·4	83·4	85·1	86·2	86·6	86·3	85·4
23	80·0	79·9	79·3	79·0	79·1	79·2	79·7	81·0	82·8	84·3	85·2	86·0	86·7	86·5	86·5
24	80·2	79·8	79·6	79·7	79·7	79·3	79·4	81·2	83·3	84·4	85·3	85·5	86·6	86·7	86·4
25	79·7	79·5	79·4	79·3	79·0	78·6	79·4	80·7	82·0	83·4	83·7	84·5	84·7	85·5	85·4
26	79·1	79·0	78·7	78·5	78·5	78·0	79·5	81·3	82·7	84·0	84·5	86·1	86·4	86·6	87·3
27	80·5	80·2	79·6	79·5	79·4	80·0	80·5	81·4	82·5	84·2	85·1	86·5	86·7	87·2	87·2
28	81·7	81·6	81·4	80·7	80·5	80·3	80·7	82·5	84·6	85·5	86·3	87·3	88·0	88·0	88·3
29	83·4	83·3	83·4	83·2	82·7	82·7	82·7	84·4	87·0	89·3	89·6	89·6	90·5	90·3	90·1
30	83·2	82·8	82·4	81·7	81·2	81·1	82·3	84·3	86·8	88·5	88·6	89·4	89·2	89·1	88·5
Mean .	80·3	80·1	79·9	79·6	79·3	79·2	79·5	81·0	82·7	84·3	85·3	86·1	86·7	86·8	86·7
Variation .	−2·3	−2·5	−2·7	−3·0	−3·3	−3·4	−3·1	−1·6	+0·1	+1·7	+2·7	+3·5	+4·1	+4·2	+4·1
Mean in °C .	26·8	26·7	26·6	26·4	26·3	26·2	26·4	27·2	28·2	29·1	29·6	30·1	30·4	30·4	30·4
Variation in °C.	−1·3	−1·4	−1·5	−1·7	−1·8	−1·9	−1·7	−0·9	+0·1	+1·0	+1·5	+2·0	+2·3	+2·3	+2·3

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MARCH. (IN DEGREES FAHRENHEIT.)

Hours.									Mean.		Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21 - 22	22—23	23—24	°F	°C	Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
84·5	83·1	81·2	79·5	78·6	77·8	77·5	77·9	77·6	**78·5**	**25·8**	14 52	84·7	6 48	73·0	1
84·6	83·7	82·0	80·5	79·9	79·3	78·7	78·0	77·2	79·1	26·2	14 14	85·2	6 2	73·5	2
87·5	87.0	84·8	82·8	81·6	81·1	80·4	80·3	79·7	81·1	27·3	13 12	88·6	6 20	75·4	3
89·3	87·5	85·8	83·7	82·7	82·4	81·6	81·1	80·5	**82 7**	**28·2**	13 15	90·5	6 2	77.2	4
88·5	86·3	85·0	83·5	83·3	82·6	81·5	80·4	79·0	82·2	27·9	13 20	89·6	7 8	76·5	5
87·1	87·3	86·0	84·4	83·4	82·4	80·8	79·7	79·0	82·4	28·0	12 45	**92·7**	6 7	75.9	6
89·4	88·0	86·5	84·5	83·4	82·2	80·8	80·5	80·7	82·4	28·0	14 40	90·6	6 20	75.6	7
86·4	85·4	84·6	83·0	82·2	81·5	81·7	81·5	81·1	81·8	27·7	12 56	88·6	6 12	75·2	8
84·5	83·7	82·3	81·2	80·5	79·8	79·9	78·0	77·4	80·9	27·2	12 40	85·7	6 17	77·3	9
83·6	82·9	81·6	80·3	80·0	79·5	79·0	77·7	77·6	79·9	26·6	11 45	85·8	6 22	75·4	10
84·0	83·3	82·3	81·1	80·8	80·4	79·3	79·0	78·3	80·2	26·8	13 46	85·7	6 30	75·3	11
85·5	84·2	82·3	80·5	79·9	79·2	78·5	77·5	76·2	79·7	26·5	13 40	86·5	6 40	74.0	12
85·0	84·6	83·2	81·1	80·3	79·5	78·0	76·4	75·8	78.7	25·9	13 56	85·5	6 20	**72·2**	13
83·8	83·2	81·7	79·7	79·2	78·5	77·3	75·5	74·7	78·8	26·0	13 40	84·7	6 30	73·4	14
83·8	83·2	81·4	79·7	79·2	77·7	76·5	76·2	75·8	78·5	25·8	14 40	84·8	6 22	73·0	15
83·4	82·4	80·8	79·4	79.0	78·2	77·4	76·6	76·5	78·8	26·0	13 8	84·5	6 20	74·6	16
82·6	82·0	80·7	79·1	78·5	78·3	77·7	76·5	76·3	78·5	25·8	13 50	84·5	4 45	73·8	17
83·7	83·0	81·7	80·3	79·7	79·4	78·8	78·0	77·3	79·4	26·3	13 58	84·5	6 10	75·0	18
85·5	84·6	82·9	81·2	80·5	80·0	79·6	78·6	78·1	80·3	26·8	13 30	86·0	6 32	75·5	19
84·7	83·4	81·7	80·3	79·6	79·4	79·1	78·6	78·3	80·0	26·7	15 15	85·0	6 30	76·0	20
83·2	82.6	81·1	80·3	79·7	79·2	78·6	78·4	77·8	79·6	26·4	14 4	83·5	6 30	75·5	21
83·4	82·3	80·7	79·3	78·7	78·6	78·4	78·2	77·6	79.4	26·3	13 45	84·6	6 32	75.4	22
84·0	83·0	81·5	80·0	79·7	79·5	78·8	78·3	78·0	79.9	26·6	13 54	85·1	5 0	76·1	23
82·6	81·6	80·0	78·8	78·5	78·4	77·8	77·6	77·4	79·5	26·4	12 48	84·5	6 15	75·5	24
82·7	81·7	80·5	79·5	79·2	78·7	78·4	78·1	77·7	79·5	26.4	13 40	85·3	6 30	75·5	25
84·5	84·0	82·5	81·1	80·5	80·2	79·7	78·8	78·3	80·0	26·7	12 16	85·5	5 54	75·4	26
84·9	83·6	82·4	81·2	80·3	80·0	79·5	78·8	78·6	80·5	26·9	14 14	86·2	6 50	75·6	27
85·4	84·4	83·2	81·7	81.0	80·4	79·7	79·5	79·4	80·8	27·1	14 44	86·4	4 36	75·6	28
85·5	85·2	83·2	81·6	81·3	80·6	80·4	79·7	79·4	81·4	27·4	14 20	86·6	5 10	76·5	29
86·4	85·0	83·4	82·3	82·1	81·7	81·4	80·4	80·0	82·0	27·8	12 50	87·6	6 40	77·0	30
87·2	86·0	85·1	83·8	83·4	82·5	82·4	82·3	81·0	82·5	28.1	14 56	88·1	4 52	78·0	31
85·1	84·1	82·6	81·1	80·5	80·0	79·3	78·6	78·1	80·3	26·8					Mean.
+4·8	+3·8	+2·3	+0·8	+0·2	—0·3	—1·0	—1·7	—2·2							Variation.
29·5	28·9	28·1	27·3	26·9	26·7	26·3	25·9	25·6							Mean in °C
+2·7	+2·1	+1·3	+0·5	+0·1	—0·1	—0·5	—0·9	—1·2							Variation in °C

APRIL.

87.5	86.8	85·2	83·1	82·4	81·7	81·1	79·7	79·9	82·6	28·1	14 10	88·4	1 10	78·5	1
88.6	88·2	86·8	84·8	83·8	83·4	82·9	82·3	82·0	83·3	28·5	12 56	89·9	6 0	**77·0**	2
85.8	85.0	83·7	82.2	81·5	80·5	80·5	80·4	80·0	82·4	28·0	13 50	86·6	5 58	79·4	3
85.6	84·5	82·9	81·5	81·0	80·4	79·6	79·5	79·8	81·8	27·7	13 52	86·6	4 52	78·5	4
85.2	84.3	83·0	81·5	80·9	80·5	80·1	79·6	79·4	81·3	27.4	15 15	86·0	6 3	78·0	5
86.3	85.1	83·5	81·7	81·1	80·5	80·3	79·7	79·5	81·7	27·6	13 20	87·4	6 0	78·1	6
84.4	83.2	81·7	80·4	79·7	79·6	79·6	79·5	79·4	**81·0**	**27·2**	12 30	86·2	5 25	77.5	7
84.7	83.3	82·0	80·7	80·4	80·0	79·6	79·4	79·1	81·1	27·3	14 42	85·9	5 26	77.8	8
84.1	83.5	82·1	81·3	80·7	80·7	80·7	80·6	80·5	81·1	27·3	13 42	85·0	6 10	77.3	9
87.5	86.2	84·4	83·1	83·0	82·8	82·5	81·8	81·7	83·1	28·4	13 50	88·4	6 2	78·6	10
86.0	85.3	84·0	83·4	82.7	82·3	81·8	81·5	81·4	83·4	28·6	13 52	87·6	6 10	80·6	11
86.7	86.1	84·8	83·5	82·9	82·5	81·9	81·5	81·6	83·4	28·6	13 40	87·6	5 0	80·4	12
87.0	85·6	84·3	83·2	82·5	82·3	81·7	81·6	81·4	83·1	28·4	14 8	87·6	5 20	79·3	13
86.3	85.5	84·2	82·6	81·7	81·5	81·4	80·3	79·6	82·9	28·3	13 48	87·4	23 56	79·5	14
86.2	85.5	84.0	82·5	81·7	81·5	81·4	81·1	80·7	82·4	28·0	14 56	87·4	4 42	78·6	15
86.1	85.3	84·0	82·5	82.0	81·6	81·5	81·5	81·2	82·8	28·2	12 32	87·1	6 8	79·5	16
86.5	85.4	84·3	82·7	82·2	81·6	81·4	81·1	80·2	83·2	28·4	13 6	87·8	23 58	79·6	17
85.6	84.7	83·1	81·6	81·1	80·8	80·6	80.5	80·1	81·7	27·6	13 58	87·4	5 30	77·5	18
85.4	84.6	83·2	81·8	81.5	81·2	81·0	80.6	80·5	82·0	27·8	13 50	87·5	5 20	78.0	19
85.8	84.8	83·4	82·0	81·5	81·1	80.7	80·5	80·1	82·2	27·9	12 20	87·5	6 0	78·4	20
85.0	83.8	82.4	81·2	80·6	80·3	80.1	79·6	79·5	81·6	27·6	13 10	87·0	5 56	78·4	21
85.1	84.2	82·8	81·5	81·0	80·7	80·5	80.4	80·3	81·8	27·7	12 35	87.1	6 0	78·2	22
85.5	84.4	83.0	81·8	81·5	81.2	80·7	80.5	80·5	82·3	27·9	12 54	87·1	4 2	78·9	23
85.2	84.3	82·3	81·3	80·7	80·8	80·7	80·4	79·6	82·2	27.9	13 40	87·6	6 0	79·2	24
84.8	84.3	82·4	81·3	80·7	80·4	79·8	79·4	78·9	81·5	27·5	13 52	86·4	5 6	78·5	25
86.5	85.4	83.4	82·3	81·7	81·4	81·2	81·0	80·8	82·3	27·9	14 12	87·6	3 30	78·4	26
86.5	84.6	84·0	83·1	82·2	81·7	81·7	82·0	81·7	82·8	28.2	13 32	88·0	3 40	79·3	27
87 9	88.2	87·0	87·0	87·3	87.4	85·3	83·5	83·3	84·8	29·3	14 40	88.6	5 44	80·2	28
89.5	89.1	88·4	87·2	85·5	84.9	84·3	83·6	83·4	**86·2**	**30.1**	14 32	**90·6**	6 4	82·5	29
88.5	87.8	87·2	86·0	85·2	84.5	83·8	83·2	82·6	85·3	29·6	13 40	90·0	5 0	80·7	30
86·2	85·3	83.9	82·6	82·0	81·7	81·3	80·9	80·6	82·6	28·1					Mean.
+3·6	+2·7	+1·3	0·0	- 0·6	—0·9	—1·3	—1·7	—2·0							Variation.
30·1	29·6	28·8	28·1	27·8	27·6	27·4	27·2	27·0							Mean in °C
+2·0	+1·5	+0·7	0·0	—0·3	—0·5	—0·7	—0·9	—1·1							Variation in ° C

(Averages for periods of sixty minutes from full hour to full hour o local mean time.)

MAY (IN DEGREES FAHRENHEIT.)

Date.	Hours.															
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	82·3	81·8	81·5	81·3	81·1	80·5	80·8	82·4	84·2	85·4	86·4	87·5	87·6	87·5	87·4
2	80·6	80·5	80·0	79·3	78·7	78·5	79·1	81·2	84·0	86·3	87·0	87·4	88·0	87·8	87·6
3	81·1	80·7	80·7	80·3	79·6	79·5	79·8	81·6	83·9	85·4	86·5	87·5	88·0	88·5	88·3
4	81·3	81·0	80·6	80·7	80·3	79·6	80·5	82·5	84·5	86·3	86·7	87·5	88·6	89·3	89·4
5	82·3	81·6	81·3	81·1	80·7	80·6	81·5	82·8	84·6	85·3	86·5	87·1	88·2	88·7	88·5
6	82·2	82·0	81·5	81·4	81·0	80·5	80·8	82·8	84·5	86·2	87·3	87·8	88·4	88·6	88·4
7	82·0	81·7	81·5	81·0	80·0	79·6	80·6	82·5	84·4	84·9	85·3	87·5	88·3	88·5	88·7
8	81·5	81·5	81·3	81·0	80·7	80·5	80·8	82·3	83·5	84·4	85·5	87·2	88·4	88·6	88·8
9	82·3	81·6	81·4	81·3	81·0	80·7	81·5	82 6	84·9	86·4	86·4	87·4	87·6	88·7	89·2
10	82·5	82·1	81·6	81·4	81·5	81·4	82·0	83·4	84·9	86·3	87·5	88·0	88·7	88 7	88·7
11	82·0	81·6	81·5	81·5	81·5	81·2	81·6	82·9	84·6	84·5	85·7	88·0	88·6	88·8	88·6
12	82·4	82·3	82·0	81·5	81·5	81·5	81·6	82·5	83·6	85·5	87·4	88·4	88·8	89·1	88·5
13	82·7	82·6	82·6	82·7	82·2	81·5	81·8	83·7	85·3	89·7	91·4	90·8	91 5	92·2	91·6
14	83·7	83·5	83·2	82·9	82·7	82·4	83·0	84·7	86·5	87·6	88·4	89·0	89·4	89·6	89·7
15	83·5	83·2	82·3	81·5	81·4	81·3	82·8	84·4	85·6	86·8	87·4	88·5	89·5	89·6	89·6
16	83·0	82·5	82·4	82·0	81·1	80·8	81·9	83·3	84·3	85·4	87·2	87·6	88·5	89·3	88·8
17	83·0	82·2	81·7	81·5	81·3	81·3	82·3	83·7	84·8	86·3	87·5	88·6	88·8	89·4	89·0
18	84·4	84·5	84·0	83·6	83·5	83·3	83·5	84·4	85·3	87·0	88·2	88·6	89·5	89·6	89·6
19	84·7	84·5	84·3	84·0	83·7	83·7	84·3	85·3	86·5	87·4	88·5	89·4	89·7	90·8	90·7
20	85·2	85·4	85·3	85·2	84·7	84·5	84·8	85·6	87·0	83·5	89·6	90·0	91·0	90·9	91·3
21	85·1	84·6	83·6	81·0	84·1	84·2	84·5	85·1	86·3	87·4	89·1	89·6	90·4	90·6	91·0
22	85·0	84·8	84·6	84·6	84·6	84·5	84·9	85·6	87·2	88·5	88·8	89·6	90·5	90·1	89·6
23	82·7	83·0	83·5	83·5	83·5	83·4	83·9	84·5	85·7	86·5	87·2	87·3	87·2	87·5	87·5
24	83·7	83·6	83·5	83·5	83·4	83·4	83·8	84·8	86·0	86·3	87·8	88·6	89·2	89·7	89·6
25	84·4	84·3	84·1	84·0	84·0	84·1	84·7	85·3	86·7	87·9	88·8	89·4	89·5	90·0	90·0
26	84·7	84·6	84·5	84·5	84·4	84·3	84·8	85·3	86·7	87·8	88·7	89·6	90·0	90·2	90·7
27	84·6	84·3	84·3	83·4	83·6	83·6	84·0	85·0	86·6	87·6	88·6	89·0	89·9	90·0	89·8
28	84·5	84·4	84·0	84·0	83·5	83·5	84·0	85·2	87·0	88·0	88·6	89·4	89·9	89·5	89·8
29	84·2	84·3	84·4	83·5	83·5	83·5	83·9	84·9	85·5	86·7	87·7	88·5	89·5	89·5	88·8
30	83·5	83·5	83·3	83·0	82·8	83·1	83·5	84·5	85·1	87·2	88·4	88·5	88·9	89·7	89·9
31	83·8	83·6	83·0	83·0	82·?	82·5	83·4	84·5	86·0	87·4	88·2	89·1	89·5	89·8	89·8
Mean	83·2	83·0	82·7	82·5	82·2	82·0	82·6	83·8	85·4	86·7	87·7	88·5	89·1	89·4	89·3
Variation	−2·1	−2·3	−2·6	−2·8	−3·1	−3·3	−2·7	−1·5	+0·1	+1·4	+2·4	+3·2	+3·8	+4·1	+4·0
Mean in °C.	28·4	28·3	28·2	28·1	27·9	27·8	28·1	28·8	29 7	30·4	30·9	31·4	31·7	31·9	31·8
Variation in °C.	−1·2	−1·3	−1·4	−1·5	−1·7	−1·8	−1·5	−0·8	+0·1	+0·8	+1·3	+1·8	+2·1	+2·3	+2·2

JUNE.

1	83·6	83·5	83·2	83·2	83·3	82·9	83·5	84·6	86·4	87·5	88·2	88·7	89·5	89·7	89·7
2	84·5	84·4	84·0	83·7	83·5	83·5	84·1	85·3	87·3	88·6	89·4	90·2	90·4	90·7	90·4
3	84·2	84·0	84·1	84·0	83·6	83·7	84·0	84·9	83·8	85·4	85·9	86·7	84·4	85·0	85·4
4	81·9	81·4	82·3	81·5	81·6	81·6	81·8	83·4	85·5	82·9	85·3	86·4	84·7	84·8	86·3
5	83·5	83·5	83·4	83·3	82·6	80·7	81·2	80·9	81·6	83·2	85·5	86·7	88·4	89·3	89·6
6	83·7	83·5	83·5	83·3	83·1	82·9	83·5	85·0	86·5	87·3	88·5	89·4	90·1	90·4	90·4
7	84·6	84·5	84·2	84·0	83·8	83·5	84·2	84·6	85·8	87·4	88·5	89·3	90·4	90·6	90·6
8	84·9	84·6	84·5	84·3	84·1	84·0	84·7	85·9	87·4	88·9	89·7	90·6	90·8	91·0	90·9
9	85·5	85·1	84·9	84·8	84·6	84·6	85·2	86·1	87·1	88·5	89·4	90·4	91·2	90·9	91·0
10	85·1	84·8	84·6	84·5	84·4	84·4	84·5	85·7	87·3	88·4	89·3	89·6	90·5	90·6	90·3
11	85·4	85·2	85·0	85·0	84·9	84·8	85·3	86·2	87·4	88·6	89·4	90·2	91·1	90·5	91·0
12	85·4	85·1	84·8	84·9	84·7	84·7	85·4	86·3	87·8	89·2	90·2	90·6	91·6	91·5	91·4
13	85·2	85·0	84·7	84·6	84·6	84·6	85·2	86·1	87·5	88·3	89·4	87·9	88·6	87·5	88·4
14	85·0	84·6	84·6	84·5	84·5	83·9	84·9	86·0	87·3	88·5	89·6	90·5	90·5	91·2	91·2
15	85·0	84·7	84·5	84·5	84·4	84·4	85·0	86·3	87·4	88·3	89·5	90·5	90·8	91·1	90·7
16	83·6	83·8	83·6	83·5	83·5	83·5	83·6	84·1	83·5	82·3	84·2	85·2	86·3	87·7	88·6
17	80·5	80·5	80·2	80·3	80·3	79·8	80·5	81·3	82·7	84·0	85·4	86·5	87·8	88·5	89·4
18	85·0	82·8	83·4	82·3	81·1	80·6	80·8	82·4	83·3	83·1	84·0	84·0	84·5	86·6	85·8
19	80·8	80·2	77·7	78·2	79·2	79·5	79·6	80·4	81·3	82·4	84·8	85·7	86·6	87·8	88·3
20	81·5	81·5	80·6	80·5	80·1	80·5	80·5	80·8	81·6	82·6	83·8	84·6	85·3	84·7	84·6
21	84·0	84·2	84·1	84·0	83·4	83·5	83·7	84·1	85·5	85·2	83·9	86·2	86·8	87·2	87·0
22	83·5	83·7	83·6	83·8	84·0	83·6	82·9	83·5	80·2	80·3	79·7	79·9	78·3	77·4	79·2
23	78·2	75·5	76·5	76·8	76·6	76·1	76·1	75·8	77·5	77·8	78·6	78·5	80·1	80·4	81·2
24	78·2	77·6	78·2	78·1	78·0	77·3	77·3	76·7	76·5	76·2	76·3	76·6	76·9	76·5	76·7
25	76·5	75·5	74·2	75·0	76·2	77·1	77·2	77·4	78·2	79·2	80·6	82·4	80·3	81·4	81·9
26	78·0	78·2	78·3	79·0	78·6	78·5	79·5	80·4	81·4	82·4	84·1	85·0	85·6	85·5	84·4
27	81·5	79·9	78·5	78·6	77·7	77·1	76·6	76·8	77·8	79·1	80·1	81·9	80·2	79·8	82·3
28	77·8	78·4	78·8	79·1	79·2	79·8	80·5	81·4	82·1	84·2	84·7	85·5	86·4	86·7	87·2
29	81·8	81·8	81·4	80·6	81·3	82·0	82·0	83·4	84·3	85·2	86·2	86·6	87·3	87·6	87·4
30	81·7	82·2	82·8	82·7	82·7	82·5	82·6	83·5	84·4	84·6	86·3	87·3	87·5	87·7	87·6
Mean	82·7	82·3	82·1	82·1	82·0	81·9	82·2	83·0	83·9	84·7	85·7	86·4	86·8	87·0	87·3
Variation	−1·5	−1·9	−2·1	−2·1	−2·2	−2·3	−2·0	−1·2	−0·3	+0·5	+1·5	+2·2	+2·6	+2·8	+3·1
Mean in °C.	28·2	27·9	27·8	27·8	27·8	27·7	27·9	28·3	28·8	29·3	29·8	30·2	30·4	30·6	30·7
Variation in °C.	−0·8	−1·1	−1·2	−1·2	−1·2	−1·3	−1·1	−0·7	−0·2	+0·3	+0·8	+1·2	+1·4	+1·6	+1·7

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

MAY. (IN DEGREES FAHRENHEIT.)

Hours.										Mean.		Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		°F	°C.	Time.	Mag.	Time.	Mag.	
												H. M.		H. M.		
86·6	85·4	84·5	83·3	82·6	82·3	81·8	81·5	81·2		83·6	28·7	12 34	88·4	5 50	80·4	1
87·5	86·6	85·0	83·7	83·1	82·7	82·5	81·8	81·5		**83·8**	**28·5**	12 58	88·6	5 20	**78·4**	2
88·2	87·5	86·2	84·0	83·2	82·4	82·1	81·7	81·6		83·7	28·7	13 48	88·8	5 40	79·4	3
89·0	87·8	86·2	84·4	83·7	83·5	83·3	82·9	82·5		84·3	29·1	15 2	89·5	5 25	79·5	4
88·3	87·6	86·3	84·5	84·0	83·5	83·1	82·6	82·5		84·3	29·1	14 46	88·8	5 20	80·5	5
87·7	87·2	85·3	83·6	82·8	82·6	82·5	82·4	82·3		84·2	29·0	13 45	89·6	5 25	80·4	6
87·8	86·6	85·2	83·8	83·2	82·7	82·5	82·2	81·7		83·8	28·8	14 8	89·5	5 35	79·5	7
88·0	87·1	85·5	83·7	83·5	83·2	82·7	82·6	82·5		83·9	28·8	13 54	89·5	6 2	80·3	8
88·6	87·8	86·5	84·7	84·0	83·5	83·4	83·2	82·6		84·5	29·2	14 2	89·5	5 40	80·5	9
88·4	87·4	86·2	84·4	84·0	83·5	83·1	82·6	82·3		84·6	29·2	14 20	89·6	3 25	81·2	10
87·7	87·1	85·2	83·5	82·7	82·5	82·3	82·2	82·4		84·1	28·9	13 10	89·6	5 8	81·0	11
88·0	87·3	86·0	84·6	84·2	84·0	84·0	83·6	83·2		84·6	29·2	13 45	89·7	6 15	81·4	12
91·8	90·1	85·3	86·4	86·0	85·3	85·0	84·6	84·2		86·5	30·3	13 30	**92·6**	6 2	81·2	13
89·5	88·7	87·3	85·7	85·2	84·6	84·2	83·9	83·6		86·8	29·9	14 32	90·5	5 48	82·0	14
89·1	88·5	87·2	85·3	84·5	84·2	83·7	83·7	83·5		85·3	29·6	13 22	90·4	6 12	81·1	15
88·3	87·4	86·2	84·7	84·2	83·8	83·7	83·6	83·5		84·7	29·3	13 36	89·5	5 4	80·6	16
88·4	87·5	86·3	85·2	84·6	84·6	84·6	84·5	84·5		85·1	29·5	14 14	89·7	5 35	81·0	17
89·3	89·2	87·8	86·7	85·6	85·2	85·2	84·7	84·8		86·1	30·1	13 25	90·5	6 0	83·2	18
91·0	89·4	88·2	87·1	86·6	86·2	85·9	85·8	85·7		86·8	30·4	15 38	91·6	5 0	83·6	19
90·8	88·4	87·6	87·2	86·5	86·5	86·5	85·6	85·5		**87·2**	**30·7**	14 40	91·8	6 0	84·4	20
91·1	90·5	81·6	83·6	83·8	84·6	84·3	84·6	85·0		86·2	30·1	14 42	91·6	17 30	80·6	21
89·0	87·1	82·0	82·9	84·0	84·4	83·5	83·5	83·0		85·9	29·9	13 0	90·7	17 24	80·4	22
87·3	87·2	86·0	84·9	84·1	84·0	83·6	83·7	83·9		85·1	29·5	11 5	88·0	0 15	82·5	23
89·2	87·9	88·1	85·7	85·4	85·2	84·9	84·4	84·4		85·9	29·9	13 45	90·4	3 2	83·2	24
89·7	88·8	88·0	86·8	85·8	85·6	85·2	85·0	85·0		86·5	30·3	14 25	90·4	3 35	83·8	25
89·6	88·7	87·4	86·5	85·7	85·4	85·3	85·0	84·8		86·6	30·3	14 34	91·3	5 14	83·6	26
89·7	88·3	87·6	86·2	85·5	85·2	85·0	84·7	85·5		86·3	30·2	12 30	90·7	3 56	83·3	27
89·7	88·7	87·8	86·5	85·4	85·0	84·8	84·5	84·3		86·3	30·2	14 16	90·7	4 40	83·4	28
88·6	88·0	86·8	85·3	84·7	84·5	84·4	84·0	83·5		85·8	29·9	14 12	90·0	2 0	82·7	29
89·5	89·0	87·5	86·0	85·5	85·0	84·8	84·5	84·3		85·9	29·9	14 22	90·4	4 2	82·7	30
89·7	88·5	87·5	86·0	85·5	84·8	84·5	84·3	84·0		85·9	29·9	13 22	90·4	5 0	82·4	31
88·9	88·0	86·4	85·1	84·5	84·2	83·9	83·7	83·5		85·3	29·6					Mean.
+3·6	+2·7	+1·1	—0·2	—0·8	—1·1	—1·4	—1·6	—1·8								Variation.
31·6	31·1	30·2	29·5	29·2	29·0	28·8	28·7	28·6								Mean in °C.
+2·0	+1·5	+0·6	—0·1	—0·4	—0·6	—0·8	—0·9	—1·0								Variation in °C.

JUNE.

89·5	89·2	88·0	86·5	86·2	85·5	85·3	85·0	84·8		86·1	30·1	13 58	90·7	5 35	82·7	1
89·5	88·6	87·4	86·4	86·0	85·6	85·2	85·0	84·6		86·6	30·3	13 14	91·0	5 10	83·4	2
84·8	82·7	84·5	84·5	84·3	82·7	83·4	83·6	81·5		84·2	29·0	11 40	87·6	16 0	80·5	3
87·9	87·7	87·1	85·4	84·7	84·3	84·2	84·0	83·9		84·2	29·0	15 24	88·5	1 3	80·6	4
89·5	88·7	87·4	86·3	85·5	85·0	84·8	84·5	84·0		85·0	29·4	14 40	89·7	5 50	79·5	5
90·2	89·3	88·0	86·6	86·3	85·7	85·5	85·3	84·9		86·4	30·2	13 15	90·5	5 30	82·7	6
90·4	89·6	88·3	86·9	86·3	86·1	85·6	85·3	85·1		86·7	30·4	13 20	90·8	5 40	83·3	7
90·5	90·2	89·1	87·5	86·7	86·5	86·1	85·7	85·5		87·3	30·7	12 56	91·2	5 4	83·9	8
90·6	89·5	88·6	87·3	86·7	86·4	86·0	85·5	85·5		87·3	30·7	12 50	91·6	5 10	84·5	9
89·7	89·4	88·2	87·2	86·5	86·3	86·0	85·6	85·5		87·0	30·6	13 28	91·2	5 35	84·3	10
90·5	90·3	88·8	87·5	87·1	86·5	86·3	86·0	85·5		87·4	30·8	14 12	91·6	5 0	84·7	11
91·0	89·8	88·5	87·3	86·5	86·3	85·8	85·5	85·5		**87·5**	**30·8**	12 40	**92·2**	4 40	84·6	12
89·2	89·1	88·0	86·7	86·5	86·2	85·7	85·5	85·5		86·7	**30·4**	14 56	89·6	5 8	84·5	13
90·4	89·6	88·5	87·3	86·6	86·2	85·7	85·5	85·4		87·2	30·7	13 55	91·4	5 6	83·5	14
90·5	89·3	88·3	86·8	86·3	85·7	85·2	84·5	84·4		87·0	30·6	12 58	91·5	21 50	84·2	15
88·8	87·2	83·9	82·7	80·7	80·0	79·5	80·4	80·5		83·8	28·8	14 57	89·5	20 54	79·4	16
89·5	89·2	87·8	86·6	86·2	85·6	85·5	85·5	85·3		84·5	29·2	14 34	90·2	5 0	79·7	17
85·7	85·0	85·3	84·6	84·5	84·3	82·8	81·7	81·8		83·6	28·7	13 43	87·1	4 40	80·1	18
87·7	85·4	84·5	82·3	81·0	80·6	81·8	81·6	81·5		82·5	28·1	14 48	88·6	2 30	77·5	19
84·9	84·9	84·8	84·6	84·4	84·5	84·5	83·3	83·6		83·0	28·3	12 20	86·9	4 20	78·9	20
86·6	86·7	86·2	85·2	84·7	84·4	82·3	83·4	83·4		84·8	29·3	12 50	87·7	21 38	80·3	21
79·7	80·2	80·0	79·7	80·3	77·6	77·5	79·7	80·6		80·8	27·1	6 8	84·2	20 45	76·5	22
81·4	80·1	79·5	77·3	78·3	77·2	77·5	77·5	77·7		78·0	25·6	15 35	81·8	1 12	74·8	23
75·7	75·0	75·3	75·7	76·5	76·8	76·6	76·1	76·0		**76·7**	**24·8**	2 45	78·8	16 0	74·4	24
82·6	80·1	79·2	78·4	79·0	79·5	79·2	78·3	78·6		78·7	25·9	15 20	83·4	2 30	**74·1**	25
83·3	83·7	84·1	82·9	82·5	81·9	81·7	81·5	80·9		81·7	27·6	13 40	86·0	0 2	77·7	26
83·9	83·1	82·8	82·1	81·6	81·3	80·9	80·5	77·8		80·1	26·7	15 48	84·4	6 32	76·5	27
87·0	86·5	85·4	84·3	83·5	83·1	83·0	82·3	82·1		82·9	28·3	14 26	87·3	0 4	77·0	28
87·3	86·6	85·5	84·7	84·3	84·0	83·6	83·2	83·5		84·2	29·0	14 48	88·0	3 20	80·5	29
87·3	86·3	86·1	85·2	82·8	83·4	83·6	83·4	82·0		84·4	29·1	13 20	88·0	0 40	80·7	30
87·2	86·5	85·6	84·5	84·1	83·6	83·4	83·2	82·9		84·2	29·0					Mean.
+3·0	+2·8	+1·4	+0·3	—0·1	—0·6	—0·8	—1·0	—1·3								Variation.
30·7	30·3	29·8	29·2	28·9	28·7	28·6	28·4	28·3								Mean in °C.
+1·7	+1·3	+0·8	+0·2	—0·1	—0·3	—0·4	—0·6	—0·7								Variation in °C.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

JULY. (IN DEGREES FAHRENHEIT.)

Date.	Hours.															
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15
1	82·9	82·3	82·2	81·6	81·5	82·2	82·5	83·5	84·7	85·6	86·5	87·4	87·3	86·5	87·0
2	82·6	82·5	82·3	81·7	81·6	81·5	81·8	83·0	84·3	85·6	86·5	86·9	87·2	87·5	**87·7**
3	83·4	83·0	82·3	82·3	82·5	82·4	82·5	81·3	80·4	81·4	83·1	84·3	85·6	85·7	85·4
4	83·5	83·4	83·0	82·7	80·9	80·3	81·5	83·0	84·4	86·1	86·0	83·7	82·6	82·6	82·5
5	81·7	81·6	81·5	81·5	81·6	81·5	81·5	81·0	81·8	83·3	84·2	84·6	85·7	85·6	86·7
6	77·6	78·5	78·6	78·7	78·6	78·6	78·0	78·9	80·2	81·2	80·6	79·4	80·2	81·5	81·8
7	78·8	78·5	79·9	80·5	79·8	78·9	78·5	78·3	79·2	79·5	80·3	80·2	80·6	80·3	80·4
8	78·6	78·5	78·4	78·3	78·5	78·3	78·4	78·4	78·3	79·6	78·6	78·1	76·7	78·4	79·0
9	81·0	81·3	80·7	79·8	79·6	79·5	79·4	79·4	79·0	79·5	80·2	81·3	79·8	78·5	78·4
10	77·8	77·4	77·2	77·6	77·2	77·1	76·8	77·4	77·0	76·6	77·4	77·6	78·0	78·6	78·5
11	79·7	79·0	79·7	77·7	79·3	80 9	81·4	81·6	81·9	81·7	83·5	83·6	84·2	83·6	83·9
12	81·2	80·5	81·5	81·4	81·3	81·5	81·6	82·1	82·3	83·2	81·9	81·3	83·1	84·4	84·0
13	80·6	81·3	81·4	80·3	80·8	81·3	81·5	81·9	82·4	82·3	82·0	82·7	83·7	83·9	83·0
14	78·5	78·5	79·4	79·2	80·3	80·4	81·0	81·5	81·5	81·5	81·5	82·1	82·4	81·6	80·7
15	76·8	**75·3**	76·0	77·7	77·1	77·0	76·9	77·2	77·5	78·0	80·4	81·5	81·7	81·8	81·6
16	81·3	81·3	80·8	80·6	80·6	80·8	81·3	81·5	81·5	81·6	82·5	82·7	83·7	82·7	82·4
17	81·4	81·2	81·2	81·0	80·5	80·5	80·8	81·5	81·3	82·6	83·3	82·2	81·8	83·5	84·1
18	80·7	80·6	80·3	80·5	80·6	80·7	81·2	81·5	82·2	81·2	82·5	83·2	83·6	84·3	83·6
19	81·3	81·1	81·0	80·8	80·6	80·5	80·0	80·6	82·1	82·6	82·3	83·2	84·2	84·3	82·6
20	81·5	80·7	80·8	81·0	81·0	81·0	81·1	81·5	82·0	82·5	83·5	84·1	84·3	84·2	84·5
21	81·5	81·5	81·4	80·2	81·3	81·4	81·4	81·5	81·7	82·8	83·8	84·1	84·4	84·4	83·3
22	81·5	81·5	81·4	81·4	81·5	81·5	81·4	81·0	80·0	80·8	81·3	81·5	81·5	81·6	79·9
23	78·5	79·3	78·6	78·2	79·2	78·8	79·6	80·2	80·6	78·8	79·6	81·1	81·3	81·4	81·5
24	80·6	80·5	79·8	80·2	80·2	80·5	80·4	81·1	81·1	80·2	81·3	83·2	83·4	83·0	83·3
25	78·5	78·2	78·3	78·0	77·7	78·4	79·0	79·2	77·6	77·3	78·6	79·2	79·1	79·1	79·0
26	77·3	77·3	77·5	78·3	76·3	76·6	77·3	75·8	76·8	79·1	80·3	80·9	82.2	82·7	79·0
27	79·3	79·9	79·5	79·7	80·0	80·4	80·5	80·7	81·2	81·2	81·2	81·6	83·2	80·8	80·7
28	79·0	78·0	79·3	78·3	78·7	77·5	79·2	80·2	81·0	81·2	82·0	82·1	83·3	83·5	83·3
29	80·5	80·5	80·4	79·4	80·0	80·1	80·4	80·5	80·6	81·9	82·5	81·8	83·1	83·4	83·0
30	79·9	80·3	80·4	80·2	80·2	80·3	80·5	80·6	80·5	80·8	81·9	81·9	81·8	82·0	81·8
31	79·7	79·6	79·0	78·0	78·7	77·8	78·2	78·4	77·7	78·9	79·8	80·5	80·7	80·8	80·5
Mean . .	80·2	80·1	80·1	**79·9**	79·9	79·9	80·2	80·5	80·7	81·2	81·9	82·2	82·6	**82·7**	82·4
Variation. .	—0·8	—0·9	—0·9	—1·1	—1·1	—1·1	—0·8	—0·5	—0·3	+0·2	+0·9	+1·2	+1·6	+1·7	+1·4
Mean in °C .	26·8	26·7	26·7	**26·6**	26·6	26·6	26·8	26·9	27·1	27·3	27·7	27·9	28·1	**28·2**	28·0
Variation in °C .	—0·5	—0·6	—0·6	—0·7	—0·7	—0·7	—0·5	—0·4	—0·2	0·0	+0·4	+0·6	+0·8	+0·9	+0·7

AUGUST.

1	79·9	79·7	80·0	79·8	80·0	80·0	80·2	80·5	81·2	81·1	81·7	82·3	82·4	82·0	81·2
2	80·2	80·2	80·3	79·7	80·0	79·6	79·9	80·2	80·6	81·3	81·3	81·4	81·5	81·1	81·6
3	80·1	80·4	79·0	77·9	78·3	79·7	80·2	80·6	80·8	81·1	80·2	79·3	81·2	81·1	79·8
4	80·0	80·1	80·0	79·3	77·8	79·4	78·3	79·2	80·2	81·4	82·4	81·8	82·0	80·8	81·0
5	79·8	79·8	79·7	79·8	79·7	79·0	79·4	79·8	80·6	81·3	81·5	82·4	83·1	81·8	82·5
6	79·0	79·5	79·4	79·7	79·6	79·9	77·2	77·6	78·8	77·8	79·4	80·4	81·6	82·4	80·6
7	79·9	80·0	80·0	80·1	79·8	80·1	78·4	77·2	**77.0**	79·3	78·4	80·4	80·0	79·7	79·2
8	78·7	79·1	78·7	79·5	79·4	78·3	77·3	77·6	78·7	80·6	81·5	82·2	82·9	82·7	82·6
9	79·6	78·3	79·3	79·4	79·6	79·7	79·9	80·2	80·4	81·0	81·1	81·6	82·5	82·8	82·3
10	78·8	77·2	78·2	78·5	79·1	79·6	79·5	79·0	79·7	78·6	79·1	79·1	81·2	80·0	78·2
11	79·6	79·3	79·5	79·5	79·2	78·6	79·1	79·7	81·1	81·6	82·6	83·3	83·4	83·5	83·7
12	79·7	79·3	79·4	77·2	77·2	77·6	78·2	79·0	80·6	81·9	82·9	83·5	84·3	83·4	83·9
13	80·0	79·8	79·6	79·5	79·4	79·3	79·5	80·4	81·6	82·4	83·1	84·0	84·2	83·5	80·4
14	80·0	79 5	79·6	79·5	79·4	79·4	79·6	80·3	79·4	78·5	78·9	81·5	82·1	82·6	80·5
15	79·6	79·6	79·5	79·4	79·2	79·2	79·4	79·3	79·1	80·6	82·0	83·4	83·4	82·5	83·2
16	79·6	78·6	78·8	79·0	79·1	78·5	78·8	80·1	81·6	82·3	83·3	84·0	84·5	84·7	84·1
17	80·5	80·5	80·5	80·4	80·1	79·3	79·4	79·2	80·3	80·5	81·4	82·6	83·3	84·3	83·5
18	80·4	80·3	78·5	78·6	78·5	78·4	78·4	78·6	80·2	80·7	82·1	83·2	83·5	83·6	84·4
19	80·0	79·8	79·7	79·4	79·1	78·5	79·1	80·4	81·3	82·3	83·5	84·3	84·6	85·4	85·5
20	79·1	78·7	78·5	78·6	78·6	78·6	79·1	80·6	80·8	80·6	82·2	83·6	84·4	84·3	84·3
21	80·5	80·4	80·0	80·2	80·0	79·6	79·5	79·9	81·0	81·7	82·8	83·9	84·0	83.5	83·0
22	79 5	79·2	79·0	79·2	79·3	79·0	79·3	80·4	82·0	83·3	83·6	84·7	85·6	85·7	85·6
23	80·6	80·3	79·6	79·1	79·0	79·0	79·6	81·1	83·0	83·5	84·9	85·3	85·6	85·5	25·6
24	81·9	81·6	81·4	81·5	80·9	80·6	80·5	80·8	81·8	82·5	83·3	83·6	85·3	85·5	85·3
25	81·1	80·7	80·5	80·4	80·3	80·3	80·6	81·9	82·9	84·2	84·9	85·8	86·3	86·5	86·2
26	80·6	80·3	80·2	79·9	79·6	79·5	80·2	82·1	83·3	84·5	84·6	85·5	86·2	86·6	87·2
27	81·6	81·4	80·7	80·5	80·5	80·1	80·2	81·5	83·4	84·3	84·8	86·3	86·6	86·7	86·9
28	81·4	81·4	81·4	81·5	80·5	80·3	80·4	82·2	82·2	83·2	83·7	84·5	85·7	86·5	86·4
29	82·2	82·0	81·7	81·5	81·4	81·1	81·3	82·5	82·9	84·4	85·6	86·5	86·7	87·3	85·3
30	79·2	78·6	78·4	78·3	77·8	77·5	78·0	79·2	80·5	82·2	83·4	84·7	86·3	86·9	86·1
31	81·2	81·1	80·5	80·2	79·7	79·6	79·7	81·3	83·3	83·6	85·3	86·0	87·4	**87·9**	86·3
Mean . .	80·1	79·9	79·7	79·6	79·4	**79·3**	79·4	80·1	81·0	81·7	82·4	83·3	**83·9**	**83·9**	83·4
Variation. .	—1·2	—1·4	—1·6	—1·7	—1·9	—2·0	—1·9	—1·2	—0·3	+0·4	+1·1	+2·0	+2·6	+2·6	+2·1
Mean in °C .	26·7	26·6	26·5	26·4	26·3	**26·3**	26·3	26·7	27·2	27·6	28·0	28·5	**28·8**	28·8	28·6
Variation in °C.	—0·7	—0·8	—0·9	—1·0	—1·1	—1·1	—1·1	—0·7	—0·2	+0·2	+0·6	+1·1	+1·4	+1·4	+1·2

JULY. (Averages for periods of sixty minutes from full hour to full hour of local mean time.) (IN DEGREES FAHRENHEIT.)

Hours.										Mean.		Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		°F	°C	Time.	Mag.	Time.	Mag.	
												H. M.		H. M.		
87·3	86·3	84·9	84·3	84·0	83·6	83·5	83·4	82·6		84·3	29·1	12 30	88·0	4 15	81·3	1
87·7	87·3	86·4	85·2	84·6	84·3	84·1	83·6	83·5		**84 6**	**29·2**	14 45	**88·1**	5 56	81·4	2
85·7	85·3	84·8	84·3	84·1	83·7	83·6	83·5	83·5		83·5	28·6	13 48	86·3	8 20	80·3	3
82·2	82·0	82·2	82·1	82·0	82·1	81·7	82·0	82·0		82·7	28·2	9 58	87·0	6 00	80·2	4
86·2	82·7	82·7	82·5	82·5	82·2	80·0	79·5	78·1		82·5	28·1	14 57	87·5	23 56	77·4	5
82·2	81·2	81·3	81·4	81·5	81·3	80·9	79·3	79·5		80·0	26·7	15 24	82·4	0 20	77·3	6
81·3	81·5	81·4	81·4	81·5	80·8	80·0	80·5	79·9		80·1	26·7	17 18	82·0	7 05	77·9	7
81·3	81·5	81·3	81·1	81·5	81·4	81·4	81·4	80·8		79·5	26·4	16 08	81·6	12 22	75·5	8
78·5	78·5	78·1	78·3	78·7	78·8	77·8	77·8	78·0		79·2	26·2	11 56	82·0	21 56	77·3	9
79·3	79·3	79·6	79·7	79·8	80·3	80·5	78·3	78·0		78·2	25·7	22 06	80·9	9 40	76·2	10
84·4	81·8	81·6	81·3	81·5	81·5	81·5	81·5	81·3		81·6	27·6	15 08	84·6	3 22	76·5	11
83·6	83·6	83·4	82·5	82·4	82·3	82·2	78·8	79·3		82·1	27·8	13 42	84·6	22 50	77·7	12
82·4	82·6	82·5	82·1	82·0	82·2	81·2	79·3	77·0		81·7	27·6	13 02	84·3	23 42	76.6	13
81·3	81·2	81·4	81·4	81·6	81·5	81·2	80·8	77·6		80·3	27·1	12 32	82·6	23 30	75·4	14
81·6	81·5	81·4	81·3	81·3	81·4	81·5	81·5	81·5		79·6	26·4	13 12	82·0	0 54	**74·5**	15
83·4	82·3	82·4	82·0	81·9	81·9	81·6	81·5	81·5		81·8	27·7	12 24	84·4	2 40	79·3	16
83·4	83·0	82·5	81·3	81·5	81·5	81·5	80·4	80·6		81·8	27·7	14 50	84·5	11 46	78·5	17
83·5	82·6	82·4	82·1	82·0	81·8	81·5	81·3	81·4		81·9	27·7	13 35	84·5	2 14	79·5	18
82·5	82·5	82·4	82·0	81·6	81·3	81·5	81·5	81·4		81·8	27·7	13 10	84·6	6 32	79·1	19
83·7	83·3	82·0	81·8	81·8	81·7	81·5	81·5	81·5		82·2	27·9	14 14	84·7	1 14	80·5	20
83·0	82·7	79·5	77·4	78·3	79·9	80·6	81·2	81·4		81·6	27·6	12 52	84·7	18 20	77·2	21
81·3	81·2	79·8	79 4	78·1	78·1	77·3	78·2	79·3		80·4	26·9	12 04	81·8	21 40	76·0	22
81·5	81·5	81·1	79·6	79·3	80·5	80·5	80·6	80·6		80·1	26·7	13 45	81·8	3 18	77·5	23
83·0	82·0	81·7	81·5	79·8	78·9	78·5	79·2	78·5		80 9	27·2	12 03	83·8	23 40	77·2	24
78·6	78·0	77·0	77·4	76·3	76·3	77·0	77·2	77·1		**78·0**	**25·6**	14 30	79·5	19 28	75·7	25
82·0	81·7	81·5	81·4	81·0	81·0	80·5	78·2	77·8		79·3	26·3	13 24	83·5	7 46	75·4	26
79·8	80·1	79·8	79·6	79·9	79·3	78·2	79·8	80·2		80·3	26·8	12 57	83·6	21 15	77·6	27
83·0	82·6	82·0	80·7	80·7	80·6	80·6	80·6	80·5		80·7	27·1	12 52	83·7	3 48	76·5	28
82·2	82·0	81·6	80·8	81·1	81·3	81·3	81·2	81·1		81·3	27·4	13 30	83·7	3 22	79·0	29
81·7	81·1	80·4	79·0	78·7	80·3	79·3	78·4	79·3		80·5	26·9	10 55	82·5	18 22	76·8	30
80·3	80·0	80·0	79·9	80·0	80·3	80·6	80·4	80·1		79·6	26 4	12 45	81·0	7 48	76·8	31
82·5	82·0	81·6	81·1	81·0	81·0	80·7	80·4	80·2		81·0	27·3					Mean.
+1·5	+1·0	+0·6	+0·1	0·0	0·0	−0·3	−0·6	−0·8								Variation.
28·1	27·8	27·6	27·3	27·2	27·2	27·1	26·9	26 8								Mean in °C.
+0·8	+0·5	+0·3	0·0	−0·1	−0·1	−0·2	−0·4	−0·5								Variation in °C.

AUGUST.

81·1	80·6	80·6	80·5	80·6	80·7	80·7	80·5	80·3		80·7	27·1	13 02	82·6	0 58	79·0	1
81·5	81·5	80·3	80·3	80·5	80·4	80·5	80·5	80·5		80·6	27·0	12 45	82·4	3 00	79·1	2
81·2	81·2	79·8	79·2	79·1	79·9	80·0	80·0	80·4		80·0	26·7	13 15	82·3	2 50	77·5	3
82·1	80·5	80·8	79·8	80·0	79·6	79·3	79·3	79·8		80·2	26·8	11 05	83·3	4 06	77·4	4
80·6	81·2	81·3	80·6	79·7	79·8	79·7	77·8	78·3		80·4	26·9	12 20	83·5	22 30	77·4	5
80·7	79·0	78·0	79·3	78·7	79·3	79·9	79·8	80·0		79·5	26·4	13 35	83·0	9 20	76·5	6
79·5	77·6	77·9	79·3	79·4	79·6	79·5	79·6	79·7		**79·2**	**26·2**	12 00	81·1	8 02	**75·7**	7
82·2	81·5	80·9	80·5	80·5	80·2	80·5	80·4	79·7		80·3	26·8	12 20	83·4	7 02	76·0	8
82·5	82·0	80·8	80·5	79·1	79·8	79·6	78·4	79·6		80·4	26·9	13 06	83·5	22 08	76·5	9
81·3	80·4	80·4	80·2	79·7	79·4	79·0	79·5	79·5		79·4	26·3	16 00	82·0	1 42	76.6	10
82.7	82·6	82·2	81·4	81·0	80·5	80·5	80·4	80·3		81·1	27·3	14 48	84·3	5 18	78·4	11
84·0	83·6	82·5	81·4	80·9	80·6	80·5	80·5	80·3		80·9	27·2	12 24	84·5	3 40	76·5	12
80·9	81·6	81·6	80·4	80·5	80·5	80·4	80·1	80·0		80·9	27·2	11 58	84·6	5 43	79·3	13
82·4	82·6	82·1	81·0	80·6	80·5	80·0	79·0	79·0		80·3	26·8	13 22	83·4	9 20	78·4	14
82·9	82·4	81·4	80·2	80·3	80·3	80·3	79·7	79·6		80·7	27·1	12 40	84·4	7 44	78·0	15
84·0	83·0	81·6	81·0	81·1	81·3	81·2	81·2	80·7		81·3	27·4	14 04	85·1	5 12	78·0	16
82·3	81·8	81·5	81·2	80·6	80·6	80·5	80·6	80·5		81·1	27·3	14 00	84·6	7 08	78·5	17
84·1	83·5	82·3	81·5	81·2	80·8	81·0	80·8	80·5		81·0	27·2	14 48	84·6	5 02	78·3	18
85·5	84·1	81·7	81·6	81·4	81·1	80·6	80·1	79·6		81·6	27·6	14 40	85·7	6 00	78·4	19
84·6	83·8	82·5	81·6	81·5	81·5	81·5	81·1	80·8		81·3	27·4	12 42	84·7	6 00	78·2	20
82·6	82·2	81·9	81·4	81·2	81·0	80·6	80·3	79·8		81·3	27·4	12 20	84·5	6 20	79·4	21
85·5	84·5	83·3	82·6	82·0	81·6	81·5	81·3	81.1		82·0	27·8	13 12	86·5	2 06	78·8	22
85·6	84·7	83·6	83·0	82·5	82·4	82·2	82·2	82.1		82·5	28·1	13 12	86·6	5 15	78·7	23
86·4	85·1	83·6	82·6	82·2	82·3	82·1	81·8	81·5		82·6	28·1	13 42	86·0	6 20	80·4	24
85·5	84·6	83·8	82·7	82·5	82·1	81·6	81·3	81·0		82·8	28·2	13 36	86·7	5 45	80·1	25
86·7	86·4	85·0	83·5	83·0	82·6	82·5	82·3	82·2		83·1	28·4	14 09	87·5	5 50	79·4	26
86·6	85·9	84·9	83·5	83·0	82·6	82·5	82·3	81·6		**83·3**	**28·5**	13 47	87·7	6 04	79·6	27
85·5	85·1	84·0	83·3	83·1	82·9	82·6	82·5	82.4		83·0	28·3	14 30	86·6	5 36	80·1	28
84·5	83·3	80·4	79·6	79·5	79·5	79·4	79·4	79·2		82·4	28·0	13 40	87·6	23 33	78·8	29
84·9	84·5	84·3	84·2	84·0	82·7	82·3	82·0	81.6		82·0	27·8	13 45	87·5	5 25	77·5	30
87·0	85·6	85·1	83·9	81·7	81·0	80·6	80·6	80·5		82·9	28·3	15 19	**88·2**	6 04	79·4	31
83·4	82·8	81·9	81·3	81·0	80·9	80·7	80·5	80·4		81·3	27·4					Mean.
+2·1	+1·5	+0·6	0·0	−0·3	−0·4	−0·6	−0·8	−0·9								Variation.
28·6	28·2	27·7	27·4	27·2	27·2	27·1	26·9	26·9								Mean in °C.
+1·2	+0·8	+0·3	0·0	−0·2	−0·2	−0·3	−0·5	−0·5								Variation in °C.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN DEGREES FAHRENHEIT.)

Date.	Hours.															
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15	
1	80·4	80·4	80·6	80·7	80·8	81·0	81·3	82·1	83·7	84·6	85·7	86·2	86·6	87·4	88·3	
2	82·0	81·7	80·9	80·6	78·3	77·5	78·1	79·2	80·6	80·6	80·8	80·8	80·9	80·5	80·2	
3	78·6	79·2	79·3	79·3	78·7	78·7	79·3	79·8	80·7	81·6	81·8	82·5	83·5	83·8	83·6	
4	78·3	78·0	77·9	78·2	78·8	78·9	79·3	79·7	77·8	77·7	78·0	79·3	81·2	82·3	82·7	
5	79·3	78·6	77·2	76·9	77·2	77·2	77·1	78·1	78·6	79·0	79·2	80·6	79·3	79·1	79·6	
6	80·4	80·5	80·2	80·3	80·5	80·5	80·6	81·0	81·7	81·7	82·6	82·7	82·5	82·3	82·6	
7	80·2	80·6	79·2	79·6	79·8	79·7	79·6	80·6	81·9	83·1	84·1	84·6	84·7	84·4	82·2	
8	79·7	79·3	78·1	78·4	79·5	78·4	78·3	80·3	81·2	81·7	82·7	81·9	83·4	83·5	83·4	
9	80·1	79·6	79·7	80·1	80·0	80·1	80·4	80·9	81·5	82·4	84·1	84·3	84·9	85·1	84·9	
10	80·2	79·9	79·8	79·5	79·7	80·0	80·4	79·5	80·3	80·5	83·2	84·1	84·6	84·9	85·2	
11	80·3	80·3	80·2	79·8	79·4	78·2	78·6	80·3	80·2	81·9	83·3	83·9	85·1	84·0	83·4	
12	80·2	80·2	79·9	79·6	79·5	79·5	79·6	80·6	82·1	83·3	81·1	84·5	85·4	85·5	85·4	
13	79·9	79·8	79·6	79·5	79·5	79·4	79·3	80·4	82·0	83·2	84·1	84·5	85·4	85·5	85·5	
14	79·9	79·8	80·0	79·5	79·3	79·1	79·3	80·3	81·2	81·5	81·7	83·4	83·5	83·2	83·0	
15	80·3	80·1	80·0	79·8	79·8	79·6	79·5	80·4	80·7	81·2	81·9	82·3	83·9	84·6	84·6	
16	80·2	80·3	80·2	79·6	79·1	77·7	78·3	78·4	79·1	80·2	81·5	83·1	82·6	81·1	81·8	
17	80·6	80·5	80·4	80·3	80·3	80·4	80·2	80·8	82·2	82·3	84·0	84·2	84·4	85·1	83·7	
18	78·0	75·5	75·9	76·4	76·6	77·1	77·4	77·8	80·2	81·7	83·4	84·1	83·7	84·7	84·5	
19	80·3	80·1	79·8	79·9	79·8	79·6	79·7	81·0	82·5	83·7	84·5	85·1	85·4	85·5	85·3	
20	78·6	78·5	78·3	77·9	78·3	78·7	79·0	79·9	81·5	82·7	83·6	84·1	84·5	85·0	85·2	
21	79·4	78·7	79·0	79·1	78·5	78·3	78·6	79·7	81·5	82·5	82·6	83·5	83·9	83·5	83·2	
22	79·4	79·1	78·7	78·5	78·5	78·3	78·5	79·5	80·9	81·7	82·9	83·6	84·3	84·7	84·7	
23	80·6	80·5	80·4	80·3	80·0	80·0	80·3	80·7	81·3	81·6	82·3	83·4	85·2	84·9	84·3	
24	80·1	79·9	80·0	79·8	79·5	79·0	79·2	80·5	82·3	83·2	83·8	84·6	85·2	84·7	85·0	
25	79·7	79·3	79·2	78·9	78·6	78·6	78·8	79·7	81·6	83·9	85·2	85·0	85·6	85·5	85·5	
26	80·3	80·2	79·7	79·4	79·3	79·2	79·5	81·2	82·9	84·3	85·4	85·6	85·6	85·6	85·7	
27	80·9	80·6	80·6	80·5	80·5	80·6	80·6	80·6	82·2	83·6	84·4	84·9	86·3	86·5	86·2	
28	79·1	78·5	78·6	79·1	78·5	78·3	79·2	80·3	82·2	83·6	84·3	85·5	86·5	86·7	86·6	
29	79·3	79·5	79·5	79·8	80·0	79·9	80·0	81·5	83·2	84·3	85·6	86·7	87·7	89·0	89·5	
30	80·7	81·4	80·2	79·7	79·8	79·6	79·9	81·6	82·9	84·3	8·5	86·3	86·8	87·0	87·0	
Mean .	79·9	79·7	79·4	79·4	79·3	79·1	79·3	80·2	81·4	82·3	83·2	83·8	84·4	84·5	84·4	
Variation .	—1·6	—1·8	—2·1	—2·1	—2·2	—2·4	—2·2	—1·3	—0·1	+0·8	+1·7	+2·3	+2·9	+3·0	+2·9	
Mean in °C .	26·6	26·5	26·3	26·3	26·3	26·2	26·3	26·8	27·4	27·9	28·4	28·8	29·1	29·2	29·1	
Variation in °C	—0·9	—1·0	—1·2	—1·2	—1·2	—1·3	—1·2	—0·7	—0·1	+0·4	+0·9	+1·3	+1·6	+1·7	+1·6	

OCTOBER.

1	82·4	82·4	81·2	80·9	81·2	81·6	81·7	83·1	84·1	85·2	86·2	86·7	87·2	87·6	88·2	
2	83·4	82·8	82·6	82·5	82·2	81·6	82·3	84·5	85·2	85·0	85·7	87·3	88·0	88·2	88·2	
3	82·5	82·4	82·3	82·1	82·3	82·0	81·9	82·3	84·0	84·7	85·3	86·5	87·3	87·6	87·3	
4	80·8	80·6	80·7	80·4	79·8	79·6	80·2	82·2	83·9	84·0	84·3	85 6	86·4	86·5	86·6	
5	82·2	81·5	81·5	81·5	81·6	81·4	81·3	82·4	83·9	85·4	85·7	86·8	87·6	88·3	88·2	
6	81·4	80·6	80·2	80·4	80·5	80·5	80·6	82·2	83·6	84·9	86·4	86·8	88·2	88·6	89·1	
7	81·6	81·7	81·5	81·2	80·8	80·6	80·4	81·4	83·4	84·7	86·7	88·3	88·5	89·1	89·2	
8	84·0	83·4	84·1	82·7	83·3	83·4	83·3	83·4	84·3	85·2	86·3	86·2	86·7	87·8	88·5	
9	83·0	81·7	81·2	81·1	81·7	81·6	81·8	83·2	84·9	85·6	87·5	88·5	89·3	89·6	89·2	
10	80·5	80·9	81·3	81·2	80·6	80·5	81·2	81·8	83·3	84·4	84·9	85·5	85·7	86·4	86·2	
11	83·0	82·7	82·5	83·2	83·2	82·7	83·0	83·7	85·6	86·6	87·4	88·4	89·6	90·8	91·0	
12	83·3	82·8	82·7	82·2	81·8	80·9	80·6	81·3	83·0	84·0	85·6	87·1	88·3	88·9	89·1	
13	81·7	81·5	81·2	80·8	81·0	80·7	80·7	81·6	82·7	84·6	85·3	86·2	88·2	88·8	87·7	
14	83·2	82·6	82·5	82·4	82·3	81·8	81·5	82·3	84·8	86·7	87·8	87·7	88·3	88·0	88·1	
15	82·5	81·8	81·4	80·6	80·6	80·4	80·4	81·6	83·3	84·7	86·3	87·9	89·5	89·5	88·9	
16	83·0	82·5	82·5	82·0	81·5	81·4	81·4	81·7	82·7	84·2	85·7	85·7	87·3	87·8	87·7	
17	79·9	79·6	79·4	79·2	79·4	79·3	79·6	80·9	81·7	83·6	85·1	85·8	85·7	87·3	87·3	
18	79·7	79·0	78·3	77·9	78·0	77·6	77·5	77·8	78·6	80·1	81·8	83·2	84·7	85·6	85·6	
19	81·7	81·4	80·3	80·1	79·8	79·6	79·7	79·8	80·4	81·6	83·3	84·7	85·6	86·0	85·7	
20	81·7	76·3	76·3	76·2	76·3	76·5	76·9	78·4	79·5	81·0	83·2	84·9	85·6	86·5	86·5	
21	78·6	78·7	73·6	78·8	79·0	78·5	79·0	79·5	80·3	81·7	82·8	83·5	84·6	85·3	84·9	
22	77·4	78·3	77·8	77·5	77·4	77·4	77·9	79·1	79·6	81·2	82·2	82·9	83·2	84·5	84·5	
23	79·0	78·6	78·5	78·5	78·0	78·0	78·2	78·7	79·1	79·5	80·4	81·0	81·5	82·3	82·4	
24	80·0	79·7	79·5	79·3	79·3	79·0	78·7	78·9	80·4	81·9	82·9	83·6	84·6	85·3	85·6	
25	81·3	80·8	79·4	78·3	77·3	77·4	77·6	78·2	78·2	79·9	81·3	81·7	82·5	84·0	84·6	
26	79·1	78·3	78·6	78·9	78·6	78·7	78·7	79·3	80·5	82·3	83·9	84·7	85·4	85 6	86·1	
27	77·1	76·3	76·5	76·4	76·3	76·7	77·3	78·0	78·4	78·6	79·2	79·7	80·6	81·2	82·4	
28	79·2	79·4	79·8	79·3	79·2	78·2	78·0	79·8	81·7	82·8	84·8	86·2	87·4	88·3	87·7	
29	82·5	82·3	83·0	82·6	82·2	81·7	81 6	82·1	83·0	83·8	85·2	86·6	87·3	88·2	89·6	
30	80·3	80·2	80·7	80·6	80·5	80·3	79·9	80·7	82·0	83·6	84·7	86·1	87·7	86·8	87·1	
31	80·1	80·3	80·2	80·4	79·8	79·4	79·3	80·6	81·7	81·3	84·6	85·6	87·3	87·5	87·5	
Mean .	81·2	80·7	80·5	80·3	80·2	80·0	80·1	81·0	82·2	83·3	84·6	85·5	86·5	87·0	87·1	
Variation .	—1·8	—2·3	—2·5	—2·7	—2·8	—3·0	—2·9	—2·0	—0·8	+0·3	+1·6	+2·5	+3·5	+4·0	+4·1	
Mean in °C .	27 3	27·1	26 9	26 8	26·8	26·7	26·7	27·2	27 9	28.5	29·2	29·7	30.3	30·6	30·6	
Variation in °C	—1·0	—1·2	—1·4	—1·5	—1·5	—1·6	—1·6	—1·1	—0·4	+0·2	+0·9	+1·4	+2·0	+2·3	+2·3	

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

SEPTEMBER. (IN DEGREES FAHRENHEIT.)

Hours.										Mean.		Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24		°F	°C	Time.	Mag.	Time.	Mag.	
												H. M.		H. M.		
98·1	86·6	85·4	84·8	84·6	84·5	84·4	82·0	82·1		**83·8**	**28·8**	14 52	88·8	1 20	80·3	1
80·1	80·7	80·4	78·2	78·0	78·3	78·3	78·5	78·7		79·7	26·5	0 04	82·5	5 06	77·2	2
84·7	83·2	81·6	80·6	80·4	78·7	78·5	77·9	77·9		80·6	27·0	15 25	85·2	23 14	77·6	3
82·5	80·6	79·9	79·7	78·3	77 3	78·2	79·3	78·6		79·3	26·3	15 00	83·6	20 18	77·3	4
80·5	80·4	80·3	80·6	80·5	80·5	80·5	80·5	80·3		**79·2**	**26·2**	11 58	81·5	6 04	76·6	5
82·6	82·5	81·7	81·1	81·0	81·0	81·0	80·9	80·8		81·4	27·4	14 56	83·0	3 20	80·1	6
81·4	81·5	81·6	81·5	81·5	81·3	81·0	81·0	80·5		81·5	27·5	12 20	85·4	2 38	78·6	7
83·2	82·5	81·9	81·5	81·4	81·3	81·2	81·0	80·5		81·0	27·2	13 52	84·0	6 00	77·5	8
84 3	83·6	82·7	82·0	81·7	81·5	81·5	80·3	80·4		81·9	27·7	13 08	85·6	1 57	79·4	9
84·6	84·1	82·7	81·2	80·8	80·1	80·6	80·6	80·4		81·5	27·5	14 12	85·4	7 32	78·6	10
83·6	82·7	82·1	81·4	81·0	80·6	80·5	80·4	80·2		81·3	27·4	12 44	85·6	5 45	77·7	11
84·7	83·4	82·2	81·4	80·9	80·5	80·5	80·3	80·3		81·8	27·7	12 18	85·6	3 48	79·3	12
84·6	84·0	82·5	81·5	81·1	80·9	79·9	80·1	80·0		81·8	27·7	13 13	86·1	6 30	79·2	13
82·4	82·0	81·5	81·0	80·6	80·6	80·5	80·5	80·5		81·0	27·2	12 14	83·9	5 40	78·9	14
84·2	83·3	82·5	81·6	81·5	81·2	80·7	80·7	80·5		81·5	27·5	15 06	85·5	6 02	79·1	15
83·4	83·6	82·3	81·6	81·0	80·9	81·2	81·0	80·7		80·8	27·1	15 58	84·5	5 38	77·5	16
84·3	81·4	80·3	78·5	78·6	77·6	78·1	77·1	77·0		80·9	27·2	13 40	85·3	23 58	76·6	17
84·2	83·4	82·2	81·6	81·4	81·0	80·7	80·5	80·5		80·5	26·9	13 36	85·4	1 20	**75·0**	18
85·2	84·1	83·0	81·6	81·4	80·6	80 5	79·2	78·5		81·9	27·7	12 32	85·7	23 24	78·4	19
84·7	84·6	83·4	81·9	81·6	81·3	80·7	80·3	79·7		81·4	27 4	14 52	85·5	4 04	77·7	20
82·6	82·5	82·0	81·1	80·7	80·4	80·1	79·7	79·5		80·9	27·2	12 28	84·5	5 00	78·2	21
84·9	84·2	83·2	82·2	81·7	81·3	81·1	81·0	80·7		81·4	27·4	15 28	85·4	6 10	78·2	22
84·7	83·3	82·8	81·6	81·3	81·0	80·7	80·5	80·4		81·8	27·7	13 15	85·6	6 00	79·9	23
84·7	84·2	82·8	82·2	81·6	81·5	81·3	80·9	80·5		81·9	27·7	12 36	85·5	5 50	78·8	24
85·2	84·5	83·4	82·5	82·0	81·6	81·4	80·9	80·5		82·0	27·8	12 19	86·0	5 20	78·5	25
85·5	84·9	83·6	83·0	82·6	82·5	81·8	81·4	81·3		82·5	28·1	14 20	86·1	6 00	79·0	26
83·9	83·5	83·4	82·4	81·7	82·0	81·4	·0·9	80·3		82·4	28·0	14 18	86·7	23 59	80·0	27
86·3	84·5	83·2	81·3	80·9	81·1	80·8	80·2	79·6		81·9	27·7	13 15	87·0	4 52	78·1	28
89·1	88·3	86·6	80·3	80·2	80·4	80·5	80·2	80·3		83·0	28·3	14 37	**89·7**	0 37	79·2	29
86·7	86·4	85·4	84·6	84·4	84·2	83·6	83·2	82·6		83·5	28·6	14 32	87·3	5 25	79·5	30
84·2	83·5	82·6	81·5	81·1	80·9	80·7	80·4	80·1		81·5	27·5					Mean.
+2·7	+2·0	+1·1	0·0	—0·4	—0·6	—0·8	—1·1	—1·4								Variation.
29·0	28·6	28·1	27·5	27·3	27·2	27·1	26 9	26·7								Mean in °C.
+1·5	+1·1	+0·6	0·0	—0·2	—0·3	—0·4	—0·6	—0·8								Variation in °C.

OCTOBER.

88·4	87·3	86·9	86·2	84·9	84·5	84·3	84·2	83·8	84·5	29·2	15	48	88·6	3	58	80·7	1
87·3	85·9	85·0	84·3	84·0	83·6	83·2	82·6	82·3	84·5	29·2	13	12	88·5	5	58	81·4	2
86·9	85·9	84·3	83·3	82·7	82·4	82·1	81·6	81·5	83·8	28·8	13	30	88·3	23	40	81·3	3
86·5	86·0	84·8	83·7	83·5	83·5	83·2	82·6	82·2	83·2	28·4	14	56	86·8	5	40	79·4	4
87·8	86·2	83·7	83·1	82·6	82·0	81·7	81·3	81·4	83·7	28·7	13	42	88·7	22	45	81·2	5
88·3	87·8	86·7	85·2	84·0	83·3	82·9	82·2	81·7	84·0	28·9	14	36	89·5	2	30	80·2	6
89·1	88·3	87·7	85·9	84·0	84·4	84·3	84·4	84·1	84·6	29·2	14	5	89·5	6	52	80·3	7
87·1	87·1	85·3	84·5	84·1	84·0	84·2	84·1	83·7	84·9	29·4	14	35	88·7	1	8	82·4	8
88·6	88·2	83·0	82·2	81·6	81·3	81·3	80·7	80·9	84·1	28·9	13	20	90·2	22	40	80·5	9
86·4	86·2	85·6	84·9	84·6	84·3	84·0	84·1	84·0	83·7	28·7	15	23	86·8	0	25	80·4	10
89·3	88·0	86 7	85·8	85·0	84·4	83·8	82·8	82·7	**85·5**	**29·7**	14	20	**92·3**	2	50	82·3	11
88·8	87·5	86·0	85·0	84·6	84·1	83·5	82·9	82·1	84·4	29·1	14	20	89·5	6	35	80·5	12
87·6	87·0	86·4	85·4	85·0	84·4	83·8	82·7	83·4	84·1	28·9	13	40	89·1	6	20	80·3	13
87·7	86·5	85·4	84·9	84·7	84·4	83·2	83·3	82·8	84·7	29·3	12	16	89·1	6	30	81·4	14
88·1	86·8	85·3	84·3	84·4	83·4	82·6	82·6	82·7	84·1	28·9	13	6	90·3	6	22	80·0	15
87·3	86·4	85·3	83·9	82·8	82·3	81·5	80·5	79·4	83·6	28 7	14	18	88·4	23	10	78·7	16
86·8	86·2	84·6	83·6	83·5	83·4	83·2	78·4	79·4	82·7	28·2	13	50	87·7	22	45	77·6	17
86·2	85·3	84·0	83·4	83·0	82·4	82·3	82·1	82·2	81·5	27·5	16	0	86·5	6	50	77·0	18
85·6	85·0	83·7	83·2	83·2	83·0	83·2	82·9	82·4	82·6	28·1	13	10	86·5	5	5	79·3	19
85·0	82·2	80·5	81·4	79·7	78·3	78·3	78·4	78·6	80·3	26 8	14	38	86·7	15	8	75·7	20
83·8	83·4	82·9	82·6	81·4	77·7	77 6	77·6	77·6	80·8	27·1	14	22	85·7	21	32	77·2	21
84·6	84·2	83·1	82·5	82·5	81·9	81·6	81·5	81·4	81·0	27·2	15	16	84·7	5	10	77·2	22
82·3	82·3	81·6	81·2	80·7	80·7	80·7	80·6	80·2	80·2	26·8	14	20	82·6	6	10	77·9	23
85·3	81·3	83·2	82·2	81·4	81·4	81·2	81·0	81·0	81·7	27·6	14	28	85·7	6	25	78·6	24
84·6	84·0	83·2	81·7	**75·7**	77·6	78·5	78·7	79·1	80·2	26·8	15	20	85·2	19	40	**75·5**	25
85·9	84·2	83·3	83·1	83·0	82·7	82·4	82·2	80·0	81·9	27 7	15	6	86·5	23	58	77·8	26
82·5	82·3	81·4	80·8	80·5	80·5	80·4	79·8	79·5	**79·3**	**26·3**	15	0	82·7	1	42	76·2	27
88·2	87·2	85·8	85·1	84·8	84·6	84·2	83·6	83·2	83·3	28·5	13	27	88·6	6	15	77·5	28
87·6	86·3	85·0	84·5	84·1	82·9	81·6	81·2	80·6	84·0	28 9	14	4	90·2	23	59	80·4	29
87·4	86·8	85·0	84·1	84·0	83·5	82·8	82·2	81·7	83·3	28·5	12	32	88·3	6	22	79·6	30
87·3	86·2	84·6	84·2	83·7	82·5	81·7	81·2	81·8	82·9	28·3	13	35	87·9	6	32	79·2	31
86·7	85·8	84·5	83·7	83·0	82·6	82·2	81·7	81·5	83·0	28·3							Mean.
+3·7	+2·8	+1·5	+0·7	0·0	—0·4	—0·8	—1·3	—1·5									Variation.
30·4	29·9	29·2	28·7	28·3	28·1	27·9	27·6	27·5									Mean in °C.
+2·1	+1·6	+0·9	+0·4	0·0	—0·2	—0·4	—0·7	—0·8									Variation in °C.

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN DEGREES FAHRENHEIT.)

Date.	Hours.															
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15	
1	81·4	81·1	80·2	80·0	79·5	78·8	78·6	78·9	79·6	81·0	83·5	85·1	87·3	88·7	89·4	
2	78·6	78·3	79·2	78·4	77·4	78·7	76·3	79·4	80·6	82·4	83·7	84·6	85·8	86·6	87·3	
3	78·0	78·4	78·3	78·4	77·8	75·9	75·5	77·5	79·6	80·9	81·8	83·3	84·3	85·7	86·6	
4	78·3	77·7	77·1	76·9	76·7	76·1	75·6	77·1	78·6	80·7	81·6	82·9	84·6	86·0	86·3	
5	79·5	78·7	78·5	78·5	78·6	78·4	77·9	79·1	79·4	80·3	82·0	83·1	84·7	85·6	84·8	
6	80·7	80·8	80·6	80·3	80·2	80·1	79·8	80·8	81·6	82·0	83·8	85·8	86·3	86·4	85·6	
7	81·2	80·3	79·9	79·5	79 6	79·6	79·7	80·5	80·9	82·6	84·7	85·5	86·8	87·3	87·0	
8	79·2	78·7	78·5	78·7	78·7	78·6	78·4	78·6	79·6	82·0	84·1	85·3	86·4	87·4	88·3	
9	78·7	78·4	78·6	77·9	77·8	77·6	77·7	78·8	80·3	81·6	83·6	85·3	86·2	87·6	88·2	
10	78·3	78·3	77·9	78·2	77·5	77·5	76·6	77·3	79·6	81·3	82·7	85·2	87·6	88·5	87·4	
11	79·2	77·8	77·1	77·3	76·4	76·4	76·2	76·9	78·4	79·6	81·5	83·6	85·4	87·0	87·7	
12	77·1	76·0	74·7	73·6	73·6	73·1	72·7	74·8	76·5	77·6	79·6	81·5	83·7	85·2	85·2	
13	75·4	75·1	74·5	74·1	73·5	73·3	72·6	73·4	75·6	77·4	79·5	81·3	82·8	83·9	83·9	
14	75·6	75·5	74·5	73·7	72·6	72·3	71·7	72·8	74·0	76·2	78·4	80·5	82·6	84·3	84·5	
15	75·1	73·7	73·5	73·5	73·3	72·6	72·5	74·3	74·6	76·9	79·5	81·6	83·2	84·5	84·4	
16	74·4	73·7	72·8	72·0	73·4	72·8	72·6	73·7	75·7	77·9	80·1	82·3	84·4	85·4	85·3	
17	76·6	76·3	76·7	76·6	76·4	76·2	75·8	77·2	78·6	80·6	82·5	84·4	85·8	85·4	85·3	
18	79·4	79·4	79·5	78·9	78·5	78·3	77·7	78·4	80·6	81·5	83·4	84·8	85·3	85·7	86·3	
19	78·5	77·9	77·5	77·2	76·4	76·3	77·3	79·2	79·9	82·0	83·7	84·7	86·5	86·4	86·2	
20	80·2	79.3	78·6	77·5	76·3	75·7	76·4	77·9	80·4	81·6	83·3	85·3	85·5	85·5	85·5	
21	80·0	80·4	80·2	79·3	79·2	79·1	79·2	80·1	80·5	82·2	84·5	85·7	87·7	88·8	88·6	
22	79·8	79·6	79·4	79·2	78·4	77·6	77·4	78·5	80·3	81·5	83·4	84·8	86·7	88·0	87·8	
23	76·5	75·7	74·7	74·3	74·5	73·6	73·5	74·2	74·7	76·8	80·2	82·6	84·3	85·0	85·9	
24	73·6	73·4	73·1	73·5	72·6	72·6	72·7	73·4	74·5	75·5	76·9	79·4	82·4	84·3	86·1	
25	74·8	75·3	74·6	74·5	74·4	74·0	73·8	75·3	76·6	77·5	79·8	81·7	83·3	84·5	84·6	
26	75·5	75·7	75·6	75·5	75·4	74·5	74·7	75·1	75·9	79·1	81·4	83·1	84·3	83·7	83·1	
27	76·7	76·6	76·4	75·5	76·2	76·3	75·3	76·2	79·6	81·3	83·7	85·5	86·6	86·8	87·1	
28	78·5	78·5	78·4	78·7	78·7	78·7	78·6	80·1	81·5	83·1	85·6	87·5	88·8	89·6	88·2	
29	80·6	80·5	80·3	80·2	79·6	79·6	79·5	80·3	81·6	83·2	84·7	85·5	86·2	86·1	86·3	
30	79·5	79·6	79·2	78·6	78·6	78·7	78·6	79·7	80·5	81·5	83·2	84·6	85·6	85·8	86·4	
Mean .	78·0	77·7	77·3	77·0	76·7	76·4	**76·2**	77·3	78·7	80·3	82·2	83·9	85·4	86·2	**86·3**	
Variation .	—2·5	—2·8	—3·2	—3·5	—3·8	—4·1	**—4·3**	—3·2	—1·8	—0·2	+1·7	+3·4	+4·9	+5·7	**+5·8**	
Mean in °C.	25·6	25·4	25·2	25 0	24·8	24·7	**24·6**	25·2	25·9	26·8	27·9	28·8	29·7	30·1	**30·2**	
Variation in °C.	—1·3	—1·5	—1·7	—1·9	—2·1	—2·2	—2·3	—1·7	—1·0	—0·1	+1·0	+1·9	+2·8	+3·2	**+3·3**	

DECEMBER.

1	79·3	79·2	78·8	78·6	78·4	77·6	77·9	79·2	80·6	82·3	82·9	83·7	85·3	87·0	**88·1**	
2	79·7	79·3	78·6	78·5	78·5	78·4	77·8	78·3	79·3	81·5	83·7	84·9	86·2	87·3	86·5	
3	78·2	78·3	77·9	77·5	77·2	76·5	76·4	77·0	78·3	79·8	81·8	83·2	84·8	85·5	85·0	
4	77·4	77·3	76·6	76·4	76·2	75·6	75·2	76·3	77·8	79·0	80·5	82·2	83·5	84·5	84·6	
5	75·9	74·4	74·6	74·5	74·4	74·3	74·2	75·2	76·7	78·2	80·3	82·2	83·8	83·7	83·5	
6	76·4	75·7	75·5	74·8	72·7	72·6	73·3	74·6	75·5	77·0	79 2	81·3	82·0	82·5	82·6	
7	76·2	75·6	75·5	74·8	73·7	72·7	73.3	75·2	75·6	76·8	78·8	80·4	81·3	82·3	82·5	
8	74·6	75·5	74·0	73·5	73·3	72·2	72·5	73·2	75·4	77·4	78·8	80·8	82·5	83·2	83·3	
9	75·2	74·1	73·3	74·3	74·3	73·5	73·0	74·8	75·9	77·3	79·6	81·6	83·5	83·8	83·4	
10	76·6	76·6	75·2	75·3	75·0	74·8	74·7	75·4	76·2	77·5	79·8	82·3	84·8	86·6	87·0	
11	77·2	76·7	75·6	75·6	75·3	74·6	74·6	75·3	76·4	77·3	79·5	81·3	84·0	85·0	84·8	
12	75·0	75·2	75·0	75·3	74·5	74·2	74·3	75·3	76·3	78·0	80·3	82·1	83·7	85·9	87·3	
13	75·1	75·3	75·6	75·5	74·6	74·4	73·7	74·8	76·0	77·0	79·2	80·6	82·6	84·4	84·3	
14	74·8	73·7	72·7	73·2	73·3	72·7	73·1	74·2	75·6	77·0	79·3	81·1	83·6	85·4	85·5	
15	76·4	75·5	74·1	72·8	72·5	72·5	73·5	74·3	75·3	77·2	78·8	81·3	84·3	85·6	85·5	
16	75·2	74·7	74·8	74·2	73·5	73·3	74·0	75·3	76·3	77·5	79·7	81·5	83·3	85·2	85·8	
17	74·9	75·5	75·1	74·7	74·5	73·7	73·5	74·6	76·0	78·0	80·5	82·4	84·1	85·8	86·7	
18	75·6	75 6	75·2	74·3	73·6	73·5	73·7	74·8	75·7	76·8	79·5	82·2	83·5	84·6	83·9	
19	74·3	73 9	72·8	73·6	73·7	74·3	73·8	74·2	74·6	76·3	78·3	80·0	82·3	83·8	83·4	
20	75·1	74·2	73·4	73·7	72·5	72·3	72·2	72·5	73·4	75·0	77·2	80·0	82·1	84·0	83·4	
21	73·2	72·7	72·8	73·0	72·1	71·5	71·4	71·9	74·0	75·1	78·2	80·0	82·6	84·6	86·9	
22	75·0	74·6	74·2	73·5	73·4	72·9	71·8	72·5	74·1	75·2	77·4	80·2	82·5	83·4	83·5	
23	75·1	74·9	74·1	73·5	72·5	72·3	71·5	72·4	73·9	74·3	76·5	78·9	80·7	81·4	81·6	
24	74·3	74·6	74·0	73·5	73·4	72·9	72·4	73·0	74·2	75·3	76·8	78·3	79·8	80·5	80·6	
25	72·3	71·6	72·0	71·7	71·5	70·7	70·5	71·5	73·6	75·0	76·5	77·6	78·6	78·6	79·0	
26	69·7	69·4	69·0	68·5	68·4	68·6	68·5	69·4	71·3	72·4	74·5	76·2	77·3	77·3	77·5	
27	70·0	69·7	68·4	67·5	66·3	66·5	66·2	66·8	70·5	72·7	75·2	78·1	79·5	80·3	81·3	
28	71·5	70·6	69·8	69·5	69·3	69·1	68·3	70·1	72·5	74·0	77·7	79·4	80·3	80·5	80·5	
29	70·5	70·4	70·0	69·8	70·4	70·2	69·3	69·0	70·5	72·7	74·9	76 5	78·0	78·2	78·2	
30	67·3	67·0	67·1	67·4	66·8	65·7	**65·5**	66·6	68·8	71·2	73·9	76·0	76·8	78·1	78·1	
31	68·4	70·2	70·5	70·4	69·9	69·2	69·0	70·6	72·5	74·1	76·6	78·2	80·9	81·7	81·8	
Mean .	74·5	74·3	73·7	73·5	73·1	72·7	**72·6**	73 5	74·9	76·4	78·6	80·4	82·2	83·2	**83·4**	
Variation .	—2·6	—2·8	—3·4	—3·6	—4·0	—4 4	**—4·5**	—3·6	—2·2	—0·7	+1·5	+3·3	+5·1	+6·1	**+6·3**	
Mean in °C. .	23·6	23·5	23·2	23·1	22·8	22·6	**22·6**	23·1	23·8	24·7	25·9	26·9	27·9	28·4	**28·6**	
Variation in °C.	—1·4	—1·5	—1·8	—1 9	—2·2	—2·4	**—2·4**	—1·9	—1·2	—0·3	+0·9	+1 9	+2·9	+3·4	**+3·6**	

(Averages for periods of sixty minutes from full hour to full hour of local mean time.)

NOVEMBER. (IN DEGREES FAHRENHEIT.)

Hours.									Mean.		Maximum.		Minimum.		Date.
15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24	°F	°C	Time.	Mag.	Time.	Mag.	
											H. M.		H. M.		
89·6	88·1	86·3	84·9	84·0	83·2	81·8	80·3	79·5	**82·9**	**28·3**	15 12	**90·5**	6 40	78·4	1
86·8	85·4	82·7	83·2	82·5	81·3	80·3	79·3	78·2	81·7	27·6	14 30	87·5	4 40	77·0	2
86·5	85·0	83·3	81·1	81·4	80·5	79·7	78·3	77·6	80·7	27·1	14 12	86·7	6 0	74·7	3
86·1	84·7	83·3	82·5	81·9	80·8	79·7	78·7	80·2	80·6	27·0	14 20	86·6	6 15	75·5	4
83·7	82·7	81·6	81·5	81·4	81·3	81·1	81·5	81·7	81·1	27·3	13 40	85·8	6 27	77·6	5
85·3	85·0	83·7	82·6	81·8	81·6	82·0	81·5	81·5	82·5	28·1	12 16	86·6	6 35	79·7	6
86·1	84·5	82·7	82·1	81·4	80·8	80·6	80·3	79·6	82·2	27·9	13 45	87·5	3 25	79·4	7
87·6	85·5	84·0	83·2	82·5	82·3	81·4	80·4	79·5	82 0	27·8	14 41	88·5	6 32	78·2	8
87·5	85·3	83·4	82·6	82·5	81·7	80·4	79·4	79·0	81·7	27·6	15 0	88·4	3 50	77·4	9
86·7	85·1	83·5	83·1	82·4	80·9	79·6	79·9	79·7	81·5	27·5	13 32	89·3	6 30	76·4	10
86·3	84·1	82·4	81·6	81·3	80·4	79·7	78.4	77·3	80·5	26·9	14 44	87·8	6 6	75·9	11
84·6	82·8	80·7	80·3	79·9	78·6	77·4	75·6	76·4	78·4	25·8	14 0	85·6	6 32	72·4	12
83·5	82·0	80·4	79·4	78·7	77·6	77·1	77·4	76·7	77·9	25·5	14 36	84·3	6 36	72·4	13
83·8	82·3	80·5	79·4	78·9	77·6	76·6	75 3	76·5	**77·5**	**25·3**	14 50	84·6	6 28	**71·5**	14
84·0	82·3	80·5	79·5	79·2	78 3	77·3	75·4	75·3	77·7	25·4	13 36	84·7	6 1	72·2	15
84·6	82·5	81·0	79·7	79·7	78·8	77·7	76·7	77·6	78·1	25·6	13 20	85·8	3 10	71·5	16
85·4	84·3	82·5	81·6	80·8	80·4	79·7	79·3	78·7	80·3	26·8	12 10	86 5	6 29	75·5	17
85·1	83·4	82·2	81·6	81·4	80·7	80·4	79·8	79·5	81·3	27·4	14 20	86·6	6 32	77·5	18
85·5	84 4	83·2	82·4	81·7	81·5	80·3	79 6	80·4	81·2	27·3	14 2	86·7	5 28	75·7	19
85·4	83·8	82·5	81·9	81·5	80·8	80·7	80·8	80·6	81·1	27·3	11 54	86·6	5 52	75·5	20
88·3	86·4	84·5	83·4	83·2	82·6	81·8	81·4	79·8	82·8	28·2	13 8	89·1	4 35	78·6	21
86·8	84·3	81·8	81·1	80·4	79·5	77·8	76·7	76·6	81·1	27·3	13 52	88·4	23 30	76·4	22
84·3	81·8	80·3	79·4	78·9	77·5	75·9	74·6	74·1	78·1	25·6	14 20	86·3	6 16	73·3	23
85 2	82·3	80·9	80·4	79·3	78·3	77·4	75·6	75·4	77·5	25·3	15 2	86.7	2 22	72·4	24
83·7	81·5	79·6	79·2	79 0	78·7	78·0	77·3	76·5	78·3	25·7	14 34	84·8	6 22	73·6	25
82·6	80·9	80·4	80·0	80·0	79·4	78·7	78·1	77·3	78·7	25·9	13 0	84·6	5 50	74·3	26
86·1	84·0	81·8	81·5	80·6	80·5	80·0	79·4	78·7	**80·5**	26·9	14 10	87·7	6 50	74·7	27
86·7	84·5	82·8	80·3	80·2	80·1	80·6	80·4	80·6	82·1	27·8	13 17	90·3	2 35	78·3	28
85·5	84·3	83·0	82·2	81·6	81·5	81·2	80·4	80·3	82·3	27·9	12 45	86·5	6 10	79·4	29
86·5	85·2	83·6	82·6	82·4	80·0	80·1	79·2	78·7	81·6	27·6	14 42	86·7	6 40	78·4	30
85·7	83·9	82·3	81·5	81·0	80·2	79·5	78·7	78·5	80·5	26·9					Mean.
+5·2	+3·4	+1·8	+1·0	+0·5	—0·3	—1·0	—1·8	—2·0							Variation.
29·8	28·8	27·9	27·5	27·2	26 8	26·4	25·9	25·8							Mean in °C.
+2·9	+1·9	+1·0	+0·6	+0·3	—0·1	—0 5	—1·0	—1·1							Variation in °C.

DECEMBER.

87·2	85·3	82·2	81·6	81·4	80·7	80·6	80·5	80·5	**81·6**	**27·6**	14 20	**88·4**	6 0	77·5	1
85·4	84·3	82·7	82 2	81·0	81·4	80·6	79·6	78·2	81·4	27·4	14 0	88·0	6 40	77·5	2
84·8	83·2	81·6	81·2	80·6	79·6	78·2	76·8	77·4	80·0	26·7	13 42	85·9	6 32	76·3	3
84·0	82·2	80·7	80·3	80·0	78·6	77·4	76·7	76·5	79·1	26·2	14 12	85·2	6 46	74·8	4
83 4	81·7	80·2	79·4	78·9	78·1	76·8	76·5	77·3	78·3	25·7	12 40	84·6	6 0	74·0	5
82·7	81·4	79·9	79·1	78·6	78·3	77·7	76·3	75·4	77·7	25·4	15 30	83·0	6 4	72·2	6
82·3	80·6	79·3	78·6	78·2	77·5	76·5	75·6	74·7	77·4	25·2	14 8	82·6	5 45	72·6	7
82·5	81·4	79·9	79·4	79·3	78·6	77·3	76·3	75·5	77·5	25·3	13 45	83·5	5 26	71·6	8
82·9	82·0	80·7	80·0	79·6	78·5	77·3	77·0	77·6	78·1	25·6	13 58	84·2	6 25	72·6	9
85·8	83·8	81·6	80·5	79·6	79·2	78·5	77·0	76·6	79·2	26·2	13 40	87·3	6 28	74·5	10
84·4	82·6	80·9	80·1	79·5	78·8	77·1	76·0	75·6	78·7	25·9	13 12	85·5	6 4	74·5	11
84·9	82·9	81·3	80·4	80·3	79·5	78·3	77·2	76·5	78·9	26·1	14 30	87·9	5 15	73·9	12
83·8	82·2	80·3	79·4	78·6	78·6	77·5	76·4	75·0	78·1	25·6	13 32	84·5	6 32	71·5	13
84·2	81·9	79·9	79·1	78·6	73·2	76·8	76·3	76·5	77·8	25·4	14 0	86·6	5 22	72·4	14
84·3	82·3	80·4	79·3	78·6	78·5	77·9	77·2	76·2	78·1	25·6	14 25	86·4	4 25	72·3	15
84·0	82·3	80·5	79·2	78·5	78·2	77·3	75·7	75·1	78·1	25 6	14 18	86·4	5 6	72·5	16
86·6	83·3	81·0	79·8	79·0	77·8	76·3	76·2	76·4	78·6	25 9	14 56	87·0	6 22	73·4	17
83·2	81·8	80·0	78·6	78·2	77·0	75·3	73·6	72·9	77·6	25·3	13 23	85·0	23 35	72·4	18
82·9	80·8	79·0	78·2	78·3	76·6	75·2	75·1	75·6	77·1	25·1	14 4	84·0	2 20	72·5	19
83·2	81·8	79·7	78·2	77·8	76·6	75·1	75·3	75·2	76·8	24·9	13 10	84·5	6 50	71·7	20
87·5	85·4	82·0	79·8	78·3	76·8	75·3	75·6	75·5	77·3	25·2	15 24	87·8	6 30	71·2	21
83·0	81·9	80 3	78·0	77·4	76·8	76·7	76·4	75·6	77·1	25·1	14 35	83·7	6 52	71·5	22
81·6	80·0	78·5	77·2	76·6	76·4	75·5	74·3	74·0	76·1	24·5	14 50	82·3	6 15	71·3	23
80·4	79·2	77·3	75·2	74·6	74·2	73·7	73·0	72·5	75·6	24·2	14 20	80·9	6 20	72·2	24
77·9	76·4	74·3	73·5	73·5	72·5	72·2	71·4	70·2	73·9	23·3	13 50	79·5	23 58	69·7	25
77·4	76·1	74·5	73·6	73·5	72·8	72·2	71·6	71·3	72·5	22·5	14 34	78·4	4 20	68·2	26
80·7	79·5	77·8	76·9	76·4	75·3	74·2	73·5	72·4	73·6	23·1	14 45	81·5	6 32	65·6	27
79·5	78·3	76·2	74·9	74·6	74.2	73·7	73·0	71·8	74·1	23·4	14 15	81·0	6 22	67 6	28
77·5	76·0	74·5	73·2	71·8	70·7	70·0	69·4	68·3	72·5	22 5	13 30	78·6	23 57	67·4	29
77·8	76·7	75·0	74·0	72·9	71·7	70·7	70·0	68·9	**71·4**	**21·9**	13 48	78·7	6 35	**65·4**	30
81·3	80·6	78·7	76·9	75·8	74·8	74·4	73·6	73·7	74·7	23·7	13 10	82·5	0 10	68·1	31
82·8	81·2	79·4	78·3	77·8	77·0	76·0	75·3	74·8	77·1	25·1					Mean.
+5·7	+4·1	+2·3	+1·2	+0·7	—0·1	—1·1	—1·8	—2·3							Variation.
28·2	27 3	26·3	25·7	25·4	25·0	24·4	24·1	23·8							Mean in °C.
+3·2	+2·3	+1·3	+0·7	+0·4	0·0	—0·6	—0·9	—1·2							Variation in °C.

RELATIVE HUMIDITY, 1932.

JANUARY. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	83	80	83	88	89	89	89	87	84	81	77	66	64
2	80	80	80	80	84	87	85	85	81	77	73	67	61
3	78	80	79	80	79	82	81	79	76	72	67	64	56
4	79	77	77	79	83	82	81	81	76	73	68	60	51
5	83	82	82	81	81	81	83	78	76	74	65	61	56
6	80	79	81	84	81	80	95	83	81	77	71	67	62
7	77	80	81	82	83	80	78	76	74	64	61	62	51
8	84	82	82	82	80	78	77	71	62	56	51	52	49
9	85	84	82	84	79	81	85	84	80	76	68	62	53
10	76	75	77	79	80	79	75	82	81	77	68	62	58
11	81	76	78	82	81	82	82	80	75	73	62	51	47
12	72	74	82	78	78	78	79	82	80	69	58	55	53
13	77	77	75	72	74	76	77	72	69	63	56	55	43
14	68	69	82	83	76	78	78	80	76	70	62	62	55
15	72	73	69	71	75	77	75	77	75	71	65	50	43
16	77	83	83	80	78	78	76	76	72	68	59	57	52
17	76	68	70	76	76	77	75	71	70	67	63	53	55
18	73	74	62	65	74	75	72	74	72	69	62	48	43
19	67	67	74	81	80	77	76	75	71	66	64	57	49
20	74	73	75	74	67	67	73	78	74	71	58	47	43
21	68	72	79	79	76	74	76	71	70	68	65	58	45
22	72	83	80	80	76	74	77	78	74	69	64	61	54
23	82	85	82	81	78	77	76	76	74	68	62	48	40
24	59	70	73	70	68	66	74	74	67	65	60	60	55
25	81	78	78	72	74	76	79	75	70	64	62	58	44
26	76	71	76	76	70	69	75	75	72	67	63	56	38
27	81	81	81	76	80	77	75	77	73	66	65	56	45
28	79	78	70	70	68	71	75	71	68	69	64	57	52
29	82	83	84	76	73	74	79	79	74	67	61	59	54
30	76	82	86	86	84	83	82	77	69	66	65	55	50
31	79	80	78	76	72	69	68	71	74	71	66	56	54
Mean	76·7	77·3	78·1	78·2	77·3	77·2	78·0	77·3	73·9	69·5	63·7	57·5	50·8
*Mean Vapour Pressure in inches of mercury.	·636	·635	·633	·627	·614	·603	·604	·603	·611	·612	·617	·589	·563

FEBRUARY.

1	89	87	89	89	88	89	86	83	79	77	73	66	69
2	85	83	84	88	88	88	88	86	83	81	75	70	62
3	77	80	79	79	81	82	84	84	80	75	70	61	58
4	68	66	67	67	67	70	76	73	69	66	59	57	58
5	51	56	55	60	64	61	64	64	62	59	55	51	53
6	69	71	73	72	72	72	73	74	72	72	67	64	58
7	71	72	80	81	82	82	83	83	79	75	69	66	63
8	69	68	68	74	80	81	81	82	81	77	72	64	60
9	52	52	54	51	51	51	52	56	51	54	51	48	47
10	61	60	60	56	54	48	48	43	60	57	43	36	41
11	68	57	57	56	54	63	71	71	71	66	64	62	62
12	74	80	80	80	77	80	81	78	74	72	68	59	53
13	81	79	77	76	80	79	80	80	74	72	67	63	62
14	74	78	78	79	81	80	80	78	73	67	58	56	54
15	63	64	63	65	58	55	50	43	29	29	29	22	24
16	46	42	43	51	49	46	47	42	38	41	37	37	39
17	77	75	67	62	61	62	60	63	57	55	46	39	45
18	81	82	83	82	78	80	82	79	75	73	74	72	69
19	61	61	59	64	56	54	63	61	61	59	46	44	47
20	46	48	48	45	48	52	54	55	52	48	37	32	27
21	63	66	64	57	60	63	63	58	53	49	47	32	29
22	69	74	77	73	73	68	68	69	68	62	59	50	50
23	65	72	71	71	74	76	76	75	70	65	65	62	63
24	80	81	81	81	81	83	84	82	78	74	68	64	63
25	77	79	81	82	81	82	83	82	81	77	73	72	69
26	85	84	84	84	84	84	86	84	82	80	71	71	71
27	84	82	84	84	84	86	86	85	84	78	73	72	70
28	71	76	75	78	79	80	82	79	75	71	68	67	65
29	84	83	83	81	85	85	85	82	79	75	69	66	63
Mean	70·4	71·0	71·2	71·3	71·4	71·8	73·0	71·5	68·6	65·7	60·4	56·0	55·0
*Mean Vapour Pressure in inches of mercury.	·578	·577	·569	·564	·560	·555	·560	·558	·569	·583	·574	·563	·578

*Computed from mean temperatures and mean relative humidities.

JANUARY. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.											Mean.	* Mean Vapour Pressure in inches of mercury.	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
63	63	65	67	68	71	72	75	80	83	83	77·1	·644	1
58	56	61	60	65	68	74	75	79	78	77	73·8	·631	2
56	57	56	59	63	68	73	77	77	78	79	71·5	·628	3
53	51	54	58	64	70	70	75	77	80	79	70·7	·608	4
53	54	55	59	64	67	70	72	77	75	72	70·9	·616	5
59	59	61	66	72	75	76	75	75	78	76	74·3	·654	6
48	49	51	56	61	69	75	82	79	80	81	70·0	·640	7
56	53	54	58	77	70	75	79	82	84	86	70·0	·631	8
45	51	50	55	62	67	71	75	79	78	76	71·3	·641	9
56	59	62	65	71	75	77	75	74	77	80	72·5	·651	10
48	46	51	58	64	70	73	78	79	76	76	69·5	·633	11
51	48	56	62	66	72	73	72	65	66	71	68·3	·618	12
49	54	58	62	65	72	75	72	71	64	68	66·5	·616	13
42	49	55	64	69	76	76	70	61	61	61	67·6	·622	14
39	50	53	68	64	72	77	77	76	64	62	66·0	·597	15
53	58	62	65	68	72	72	68	66	69	74	69·4	·628	16
56	58	58	64	69	73	75	69	68	68	71	67·7	·618	17
49	52	55	63	70	73	75	76	73	68	68	66·0	·617	18
39	36	54	63	68	74	77	78	79	72	67	67·1	·638	19
40	54	60	65	70	75	78	80	72	66	63	66·5	·630	20
41	56	57	57	63	69	71	76	77	73	74	67·3	·625	21
53	53	59	66	71	73	73	77	78	77	84	71·1	·660	22
35	46	47	61	68	73	66	57	56	61	60	65·0	·628	23
56	57	54	61	67	74	74	73	74	67	80	66·6	·635	24
43	56	60	66	72	73	75	71	70	75	77	68·7	·657	25
42	53	59	64	69	73	75	72	67	70	77	66·9	·649	26
54	58	59	68	70	76	76	61	55	51	73	68·1	·656	27
52	49	55	67	74	76	78	76	77	75	79	68·7	·653	28
54	53	60	66	71	77	78	73	77	80	75	71·2	·668	29
47	51	53	61	69	76	77	78	77	81	82	71·4	·679	30
60	63	65	66	69	74	79	83	85	86	88	72·2	·686	31
50·0	53·3	56·7	62·3	67·8	72·4	74·4	74·1	73·6	72·9	74·8	69·5	·637	Mean.
·574	·612	·645	·677	·693	·707	·707	·684	·659	·629	·635	·632		*Mean Vapour Pressure in inches of mercury.

FEBRUARY.

68	69	71	72	75	77	78	82	81	81	84	79·3	·722	1
63	63	62	60	63	66	67	69	71	72	74	74·6	·673	2
56	53	53	53	56	62	60	62	66	69	68	68·7	·589	3
57	56	53	58	59	63	62	60	53	56	52	61·7	·510	4
53	53	53	54	60	62	56	56	59	63	63	57·8	·481	5
55	54	58	63	67	68	68	69	69	71	71	67·6	·582	6
62	61	59	60	63	67	69	69	70	71	71	71·2	·659	7
57	56	54	53	54	56	57	59	61	62	61	66·1	·612	8
46	48	52	56	60	64	68	66	65	66	62	55·1	·492	9
50	52	52	55	60	63	63	64	68	70	71	55·6	·475	10
62	61	62	61	63	64	67	72	79	78	73	65·2	·569	11
55	59	60	62	68	73	72	70	72	75	79	70·9	·623	12
62	63	62	65	65	67	66	64	67	67	72	70·4	·612	13
54	54	51	49	53	53	52	53	58	57	61	63·3	·562	14
30	32	40	50	53	55	57	59	55	51	44	46·7	·406	15
36	29	39	56	61	59	57	63	70	74	77	49·1	·471	16
42	45	50	57	61	69	73	74	75	77	76	61·2	·588	17
67	65	56	52	62	67	65	64	63	65	63	70·8	·669	18
48	48	47	38	38	39	40	33	39	42	50	49·9	·448	19
25	36	40	41	45	47	49	55	59	55	58	45·9	·395	20
39	42	44	49	53	60	59	61	58	63	66	54·1	·469	21
46	47	52	57	60	59	62	63	60	63	64	62·2	·543	22
61	59	58	60	62	68	71	75	75	75	76	68·5	·622	23
63	67	64	63	66	70	72	71	75	76	77	73·5	·674	24
68	64	65	65	68	72	74	76	79	79	84	75·5	·715	25
67	67	66	67	71	76	78	81	83	83	82	78·0	·751	26
68	68	66	63	57	53	55	60	64	65	68	72·5	·692	27
62	61	60	58	63	66	68	70	74	78	81	71·1	·633	28
63	61	61	66	71	73	74	77	79	80	81	75·3	·663	29
54·7	54·9	55·5	57·3	60·6	63·4	64·1	65·1	67·1	68·4	69·3	64·9	·583	Mean.
·587	·591	·594	·591	·592	·591	·588	·585	·591	·587	·581	·578		*Mean Vapour Pressure in inches of mercury.

* Computed from mean temperatures and mean relative humidities.

MARCH. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	84	83	81	82	85	84	81	79	71	57	57	53	57
2	73	75	75	75	81	80	83	80	74	68	59	53	60
3	85	88	86	86	87	87	86	84	75	65	62	45	51
4	76	66	56	52	52	55	66	65	59	61	53	45	46
5	66	64	50	55	71	69	66	65	58	53	58	53	47
6	81	76	71	75	74	67	68	67	62	57	42	38	35
7	72	74	72	73	77	77	74	68	55	55	50	41	46
8	70	70	73	72	68	71	64	68	63	61	54	46	49
9	76	77	78	85	83	84	82	75	72	72	73	72	69
10	78	78	80	82	81	82	84	83	79	71	61	56	59
11	65	69	73	76	79	79	74	74	67	58	49	58	51
12	68	73	74	72	70	57	57	57	48	33	36	62	34
13	68	67	66	70	73	75	76	74	68	57	57	56	53
14	53	60	73	73	73	74	76	73	64	56	41	50	53
15	73	79	79	81	82	83	82	77	68	62	60	61	57
16	80	80	80	80	83	85	84	81	76	70	69	65	64
17	79	79	81	83	85	86	85	80	77	72	71	69	65
18	82	83	84	85	86	87	86	82	77	71	58	63	64
19	87	85	86	87	87	87	86	85	78	70	64	62	63
20	87	86	87	86	85	87	86	85	81	77	77	72	67
21	86	86	86	86	84	81	81	81	74	69	68	66	66
22	82	81	82	81	81	84	84	83	78	73	69	71	69
23	82	82	81	83	84	84	87	85	80	76	73	69	68
24	79	80	76	74	80	79	82	76	70	62	61	60	61
25	77	77	77	78	77	78	77	75	65	62	60	57	56
26	73	74	77	78	78	77	78	75	72	68	65	66	64
27	80	83	85	85	86	84	80	74	68	62	58	62	63
28	83	82	84	86	84	85	80	78	72	69	65	66	67
29	79	76	82	79	75	79	80	77	73	66	62	62	66
30	74	75	78	79	81	82	77	72	69	65	56	60	60
31	78	81	83	84	78	72	73	71	67	53	56	61	62
Mean .	76·6	77·1	77·3	78·2	79·0	78·7	78·2	75·8	69·7	63·6	59·5	58·7	57·8
*Mean Vapour Pressure in inches of mercury.	·723	·721	·716	·717	·715	·700	·693	·702	·692	·674	·670	·690	.701

APRIL.

1	51	59	78	75	74	74	78	75	62	59	61	59	59
2	78	77	78	81	84	85	82	76	59	51	47	50	50
3	84	86	87	85	83	82	80	77	74	71	70	70	67
4	86	84	84	84	84	81	82	79	75	73	72	71	69
5	83	81	82	82	82	84	84	82	78	75	71	71	68
6	81	81	82	82	83	83	84	80	76	71	68	57	54
7	79	79	80	80	82	82	83	80	74	71	69	69	66
8	81	81	82	84	84	84	84	82	75	72	68	68	68
9	72	72	71	74	76	78	78	75	75	74	70	70	70
10	82	84	83	79	78	84	79	79	63	66	72	71	70
11	81	80	81	82	84	85	85	83	79	75	73	71	70
12	85	86	87	87	87	87	86	83	78	74	74	71	72
13	87	87	88	89	89	89	87	84	81	77	76	74	73
14	84	83	83	83	84	86	85	82	80	75	72	70	69
15	82	80	78	78	77	78	77	73	69	66	64	62	62
16	76	76	77	76	75	73	76	75	67	64	61	61	62
17	71	73	73	74	74	74	76	72	68	65	62	61	62
18	74	74	75	74	76	76	77	71	68	65	61	59	58
19	74	74	74	74	78	78	79	74	71	66	62	62	60
20	77	78	78	79	80	79	77	73	69	67	64	63	63
21	79	79	78	78	80	82	81	75	69	66	64	62	61
22	78	77	78	78	78	80	81	76	73	67	63	60	62
23	80	79	79	80	79	78	78	75	69	66	65	63	63
24	80	81	81	81	82	82	82	78	73	68	68	68	65
25	80	81	79	79	79	82	78	74	73	69	69	66	67
26	81	79	79	79	78	76	75	70	67	64	64	61	62
27	78	79	81	82	82	82	82	81	79	74	70	67	64
28	82	82	83	85	84	84	83	76	77	76	73	72	71
29	80	79	80	81	83	85	83	73	66	60	66	68	62
30	76	77	79	79	80	79	79	70	63	66	69	66	61
Mean .	78·7	78·9	79·9	80·1	80·6	81·1	80·1	76·8	71·7	68·4	66·9	65·4	64·3
*Mean Vapour Pressure in inches of mercury.	·812	·809	·814	·808	·805	·807	·802	·811	·800	·804	·811	·814	·816

*Computed from mean temperatures and mean relative humidities.

MARCH. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.											Mean.	*Mean Vapour Pressure in inches of mercury.	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
58	59	57	60	65	72	72	73	73	73	75	70·5	·686	1
57	57	59	62	68	73	77	79	80	83	84	71·5	·709	2
46	51	56	56	64	69	71	65	67	73	78	70·1	·743	3
45	46	47	55	60	66	67	65	71	70	71	59·0	·658	4
48	52	50	58	59	60	54	56	67	73	78	59·6	·654	5
46	50	63	53	50	52	57	60	64	60	64	59·7	·660	6
48	51	51	56	59	62	66	66	61	64	74	62·2	·687	7
54	59	62	62	61	69	71	73	74	66	70	64·6	·700	8
66	59	57	58	63	59	64	70	73	75	76	71·6	·754	9
55	57	62	66	67	68	68	70	67	60	59	69·7	·710	10
51	54	55	55	54	54	47	51	58	59	61	61·3	·631	11
35	38	40	38	41	43	48	51	55	62	64	**52·3**	**·523**	12
52	50	48	42	45	54	55	50	51	47	46	58·3	·571	13
55	58	59	60	61	66	66	67	72	69	68	63·3	·622	14
55	57	56	57	60	63	65	69	74	77	79	69·0	·671	15
61	60	60	61	64	63	64	68	71	73	75	71·5	·703	16
62	60	60	62	64	71	74	73	75	77	79	73·7	·717	17
66	69	71	72	75	78	80	81	84	85	86	77·3	·775	18
65	66	66	68	72	77	80	81	82	84	86	77·3	·798	19
67	68	67	70	75	79	81	82	83	84	85	**79·3**	**·810**	20
66	65	66	64	64	61	68	71	76	75	78	73·7	·743	21
69	67	66	67	70	76	77	76	75	79	80	75·8	·760	22
66	66	64	62	63	64	62	69	74	72	76	73·8	·752	23
60	60	64	67	69	72	73	73	75	76	78	71·1	·715	24
57	63	67	69	70	71	68	67	69	70	71	69·1	·695	25
66	66	64	66	70	73	74	75	76	79	80	72·3	·739	26
63	65	66	68	72	78	80	81	83	84	83	74·7	·776	27
66	66	66	70	71	75	78	78	81	81	81	75·6	·793	28
66	64	62	57	65	67	67	67	70	73	74	70·3	·752	29
57	56	56	62	64	65	64	67	68	72	75	68·1	·743	30
63	57	56	58	60	62	64	66	65	64	57	66·3	·735	31
57·8	58·6	59·5	60·7	63·4	66·5	67·8	69·0	71·4	72·2	73·9	68·8	·709	Mean.
·708	·715	·717	·709	·705	·704	·704	·705	·713	·705	·709	·705		*Mean Vapour Pressure in inches of mercury.

APRIL.

58	55	55	56	60	66	67	69	70	73	76	**65·4**	**·727**	1
49	48	48	48	50	57	62	71	80	81	83	65·6	·746	2
67	66	66	69	73	78	80	83	83	84	85	77·1	·852	3
67	68	70	74	75	79	79	78	81	81	81	77·4	·839	4
63	65	66	67	69	74	75	74	74	78	79	75·3	·803	5
57	49	54	57	60	67	69	72	74	77	78	70·7	·763	6
66	67	66	70	74	78	80	81	82	82	81	75·9	·801	7
66	61	63	64	65	67	65	66	67	70	73	72·5	·768	8
70	71	71	72	74	77	78	78	80	81	81	74·5	·789	9
67	66	66	70	74	77	77	78	79	82	82	75·3	·851	10
70	72	74	76	79	79	81	81	83	84	85	78·9	·900	11
72	72	72	74	77	80	81	80	82	83	85	79·8	·911	12
72	72	72	76	76	80	82	81	82	81	83	**80·7**	**·912**	13
70	69	70	72	74	76	78	79	78	79	81	77·6	·871	14
62	62	61	63	66	70	73	73	72	74	74	70·7	·781	15
63	62	63	66	69	71	73	74	74	72	72	69·9	·782	16
59	59	61	65	68	71	73	73	72	71	73	68·7	·779	17
56	58	59	61	66	69	70	72	73	72	72	68·2	·737	18
61	63	65	67	70	73	74	75	75	77	77	71·0	·775	19
62	64	65	68	69	72	73	75	77	77	78	72·0	·791	20
61	63	62	64	68	70	72	74	75	77	78	71·6	·771	21
62	64	63	66	70	73	76	78	78	79	78	72·4	·785	22
63	64	66	68	69	72	73	74	76	78	79	72·3	·796	23
66	67	70	71	75	73	74	74	77	78	80	74·7	·820	24
65	65	65	66	71	73	74	75	77	79	81	73·6	·790	25
60	59	61	64	69	72	73	74	75	78	79	70·8	·779	26
65	65	67	71	70	71	77	79	81	81	81	75·4	·844	27
71	67	66	65	63	57	59	60	74	79	79	73·7	·880	28
58	58	56	53	56	60	73	73	73	75	76	69·9	·873	29
64	62	56	54	49	53	58	63	67	72	73	67·3	·816	30
63·7	**63·4**	64·0	65·9	68·3	71·2	73·3	74·6	76·4	77·8	78·8	73·0	·811	Mean.
·810	·805	·799	·799	**·792**	·792	·800	·801	·814	·818	**·821**	·807		*Mean Vapour Pressure in inches of mercury.

*Computed from mean temperatures and mean relative humidities.

MAY. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.												
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13
1	72	73	77	80	81	79	80	76	72	70	69	68	69
2	83	81	83	83	82	82	80	75	70	66	67	69	67
3	83	81	85	84	84	83	84	82	77	72	70	69	64
4	83	84	83	83	84	85	84	79	75	72	71	69	65
5	82	83	83	83	84	85	83	78	75	73	70	69	67
6	81	81	80	79	79	79	78	70	67	64	62	61	63
7	77	77	77	77	79	80	78	74	69	68	68	62	62
8	79	77	77	75	74	74	75	72	70	68	66	63	62
9	76	77	77	77	75	76	79	76	71	68	65	61	61
10	75	76	77	77	74	74	74	70	66	63	61	60	59
11	76	77	77	76	75	75	77	77	74	72	69	62	60
12	79	81	81	82	84	82	79	78	76	75	69	67	66
13	86	85	83	83	82	82	84	82	72	68	57	64	61
14	85	84	85	86	86	83	84	78	75	74	76	75	73
15	82	81	83	83	84	85	83	79	76	74	71	69	64
16	77	78	77	76	77	78	77	72	70	68	65	65	63
17	79	80	82	81	81	81	79	77	75	72	68	67	66
18	76	76	78	78	78	79	80	78	76	72	70	69	70
19	83	83	83	85	85	85	86	83	80	76	73	69	68
20	85	85	83	82	82	82	82	80	78	76	72	71	68
21	84	85	85	84	84	85	84	83	80	78	73	72	72
22	80	82	83	85	86	87	88	89	86	81	80	79	75
23	81	83	82	82	82	81	78	77	79	79	76	74	74
24	83	83	83	81	81	81	81	78	75	75	71	70	69
25	78	78	78	79	78	77	77	77	76	73	71	69	69
26	78	78	77	77	77	77	75	75	71	69	67	64	64
27	76	77	77	78	77	76	75	73	70	68	65	65	63
28	73	73	75	73	75	76	74	72	67	65	64	62	61
29	71	71	71	74	74	74	74	72	71	69	66	64	61
30	73	72	71	72	73	73	72	69	70	63	61	61	58
31	72	74	74	74	72	72	69	68	65	62	62	59	58
Mean .	79·0	79·2	79·6	79·6	79·6	79·6	79·1	76·4	73·3	70·4	68·2	66·7	65·2
*Mean Vapour Pressure in inches of mercury.	·896	·893	·888	·883	·874	·868	·879	·883	·892	·893	·893	·896	·893

JUNE.

1	71	71	72	73	74	75	72	71	68	66	69	66	65
2	75	74	75	75	75	75	74	72	69	68	66	65	63
3	79	81	80	78	79	80	77	74	77	76	75	72	79
4	83	84	83	84	84	85	85	81	79	84	79	73	76
5	79	79	79	80	81	78	83	84	84	83	78	75	66
6	74	75	75	75	75	76	75	71	66	65	63	61	61
7	74	66	76	74	77	78	76	74	72	69	66	63	62
8	73	74	74	73	74	73	72	69	68	64	62	61	62
9	72	73	72	75	74	75	72	72	69	66	63	62	62
10	71	74	74	72	73	74	74	71	69	65	64	63	63
11	75	76	70	76	77	75	76	74	71	68	67	66	65
12	75	76	76	77	76	74	73	72	68	65	64	63	62
13	74	74	75	75	76	76	74	73	68	66	66	73	72
14	76	76	76	75	76	77	74	74	71	69	66	65	65
15	76	77	77	76	76	75	76	73	72	69	68	65	63
16	77	76	78	77	78	79	79	78	82	87	80	79	74
17	86	86	86	86	85	87	86	83	81	77	74	72	69
18	75	82	81	84	83	85	84	81	81	83	79	80	73
19	87	85	88	84	84	87	85	85	83	80	77	75	71
20	86	83	85	86	85	84	83	85	85	82	78	77	79
21	76	75	75	76	79	75	78	75	72	74	76	72	73
22	79	78	77	78	77	79	81	79	82	88	85	86	84
23	91	86	89	91	92	91	89	90	92	90	90	90	86
24	91	91	91	91	88	90	92	92	92	93	92	93	88
25	88	90	89	88	88	88	91	90	89	88	86	82	88
26	92	91	90	90	90	85	90	88	87	86	79	77	76
27	83	88	86	89	87	92	91	90	88	87	85	81	82
28	89	87	89	89	88	87	89	88	88	80	78	78	76
29	84	85	85	84	85	82	81	80	79	78	76	76	75
30	81	81	81	82	82	82	83	80	78	77	77	74	73
Mean .	79·7	79·8	80·3	80·4	80·6	80·6	80·5	79·0	77·7	76·5	74·3	72·8	71·8
*Mean Vapour Pressure in inches of mercury.	·889	·879	·879	·880	·879	·876	·884	·890	·901	·910	·913	·915	·914

* Computed from mean temperatures and mean relative humidities.

MAY. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.											Mean.	*Mean Vapour Pressure in inches of mercury.	Date.
13—14	14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
69	70	72	74	74	75	77	79	77	80	81	74·7	·858	1
68	69	69	74	74	76	79	81	81	82	83	75·8	·862	2
64	64	64	68	70	76	77	79	81	84	83	76·2	·878	3
63	62	64	67	72	77	79	79	81	82	83	76·1	·894	4
63	66	66	68	70	75	76	78	79	80	80	75·7	·889	5
63	66	67	67	72	77	80	81	79	79	77	73·0	·855	6
64	64	65	69	73	77	78	80	80	80	81	73·3	·847	7
62	64	64	66	71	75	75	76	77	77	75	71·4	·828	8
61	59	59	62	65	69	71	75	72	73	75	70·0	·827	9
58	59	59	63	65	70	72	71	73	75	75	68·6	·813	10
60	60	64	65	70	73	75	75	77	78	79	71·8	·838	11
66	68	70	73	77	80	81	82	84	78	85	76·7	·910	12
61	64	62	67	71	77	80	83	84	83	84	74·8	·943	13
73	73	73	75	78	82	83	85	85	82	82	79·8	·984	14
64	63	63	63	65	69	71	72	75	76	76	73·8	·895	15
63	64	66	68	72	76	77	79	79	79	78	72·7	·865	16
66	67	69	71	73	76	78	79	79	79	78	75·1	·905	17
70	68	64	63	68	72	77	79	81	82	84	74·5	·927	18
64	65	66	67	70	74	75	76	78	79	81	76·4	·973	19
68	70	70	76	83	79	82	83	84	85	85	78·8	1·016	20
72	71	71	73	77	71	76	77	77	82	81	78·2	·977	21
73	71	73	77	76	81	85	81	84	80	80	80·9	1·001	22
72	73	72	73	76	79	81	81	82	82	82	78·4	·945	23
68	68	69	72	69	78	77	77	77	79	79	76·0	·94	24
70	72	69	71	72	73	77	77	78	78	77	74·7	·941	25
63	63	64	67	71	74	75	76	76	76	76	72·1	·912	26
63	63	64	66	69	73	75	76	76	72	73	71·3	·893	27
62	62	62	65	67	69	72	72	74	74	74	69·3	·868	28
61	64	64	66	67	71	73	74	73	73	74	69·7	·859	29
58	58	59	57	62	66	68	71	70	71	70	66·6	·824	30
60	60	58	61	64	66	68	70	70	71	71	66·7	·825	31
64·9	65·5	65·8	68·0	71·1	74·4	76·5	77·5	78·2	78·4	78·8	74·0	·897	Mean.
·897	·902	·894	·898	·894	·897	·904	·907	·907	·903	·902	·893		*Mean Vapour Pressure in inches of mercury.

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66	66	65	65	67	71	72	74	73	74	76	70·1	·872	1
63	64	66	68	72	74	74	76	76	77	79	71·5	·904	2
76	73	74	83	80	77	75	77	79	79	78	77·4	·906	3
75	73	70	71	71	76	77	78	79	81	80	78·8	·923	4
63	63	63	64	67	70	72	73	72	71	73	74·2	·891	5
60	60	61	64	66	69	70	72	73	73	74	68·9	·866	6
61	61	61	63	66	69	68	70	71	72	73	69·3	·879	7
62	62	63	63	65	69	70	72	72	74	72	68·5	·886	8
62	63	62	64	66	69	71	70	70	72	71	68·6	·887	9
62	63	64	64	67	70	72	72	73	74	75	69·3	·887	10
66	68	67	66	69	73	72	72	73	74	76	71·6	·929	11
60	63	62	64	67	69	71	71	72	74	74	69·5	·904	12
73	70	67	68	70	73	73	74	76	76	75	72·5	·919	13
63	63	65	67	69	71	74	73	75	76	75	71·3	·919	14
63	65	65	66	69	73	73	76	78	77	78	71·9	·921	43
71	66	66	72	81	83	87	85	78	81	83	78·2	·904	1r
66	65	64	66	68	70	70	72	74	73	74	75·8	·895	78
72	75	75	75	76	77	79	81	83	84	86	79·7	·915	26
69	66	69	73	72	85	88	86	85	83	84	80·5	·892	11
81	78	77	76	77	76	76	76	75	79	80	80·4	·906	19
73	72	73	73	74	75	77	79	81	81	80	75·6	·903	20
85	86	88	86	86	87	82	88	88	89	90	83·7	·878	21
84	84	83	87	88	91	91	91	91	92	93	89·3	·855	22
92	94	92	91	91	88	90	89	89	90	90	90·8	·882	25
84	84	81	87	87	88	88	88	89	91	91	87·6	·858	25
77	79	81	77	77	81	83	84	83	86	86	84·0	·907	26
81	76	73	80	80	81	83	85	87	87	86	84·5	·866	27
75	74	74	76	76	79	78	83	84	83	85	82·2	·923	28
74	73	72	72	76	78	79	79	79	80	79	78·8	·923	29
73	73	73	72	73	76	77	80	81	80	82	78·0	·919	30
71·1	70·7	70·5	72·1	73·8	76·3	77·1	78·2	78·6	79·4	79·9	76·7	·896	Mean.
·911	·912	·909	·909	·904	·902	·899	·898	·897	·900	·897	·898		*Mean Vapour Pressure in inches of mercury.

* Computed from mean temperatures and mean relative humidities.

JULY. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	81	82	81	81	84	83	82	79	78	76	75	73	74	79
2	83	83	83	84	86	87	87	85	82	80	76	74	74	71
3	82	83	84	87	87	84	87	89	91	88	84	77	79	79
4	82	84	86	85	86	91	87	86	79	80	80	83	87	85
5	90	89	89	88	89	87	88	88	87	84	81	79	78	79
6	92	93	91	90	92	92	93	93	88	87	91	92	88	85
7	90	91	89	87	87	92	92	91	89	90	89	89	87	90
8	92	92	91	92	91	91	91	92	93	92	91	92	92	93
9	85	85	86	91	91	91	91	91	93	93	91	90	89	92
10	90	91	93	91	92	92	94	94	94	94	94	94	93	92
11	91	91	91	91	92	87	86	85	85	85	82	79	79	82
12	83	81	83	83	83	83	83	81	83	79	81	83	81	78
13	86	83	83	86	85	84	83	82	82	84	85	83	82	81
14	91	89	91	91	89	88	86	85	86	86	85	83	83	85
15	87	89	86	88	88	91	91	90	87	92	86	84	83	83
16	84	84	83	87	86	86	85	84	86	87	85	83	82	80
17	85	85	85	85	83	84	87	84	85	82	80	83	85	82
18	86	86	87	86	86	85	84	83	81	87	83	81	81	79
19	84	85	85	85	85	86	87	87	85	83	84	83	79	79
20	84	86	86	85	84	84	84	83	85	83	82	80	79	80
21	84	84	84	85	84	84	85	85	84	83	81	77	80	79
22	85	84	83	83	83	83	83	87	89	89	87	87	87	81
23	90	89	90	91	89	91	90	88	87	88	89	87	86	87
24	88	87	90	88	88	87	88	87	88	88	89	84	82	82
25	92	93	92	93	95	91	90	90	91	93	93	92	89	87
26	90	91	89	87	93	89	88	90	90	90	87	87	87	86
27	90	89	88	89	88	87	86	86	87	86	86	85	83	86
28	90	92	91	91	91	92	90	87	86	86	85	85	83	81
29	83	84	83	86	83	83	83	84	84	83	81	83	80	79
30	85	82	83	83	82	84	84	84	85	85	82	83	82	82
31	88	87	89	91	89	92	91	90	93	91	88	87	86	86
Mean . .	86·9	86·9	86·9	87·4	87·5	87·5	87·3	86·8	86·5	86·3	84·9	83·9	83·2	82·9
*Mean Vapour Pressure in inches of mercury.	·894	·891	·891	·891	·891	·891	·898	·902	·904	·917	·923	·921	925	925

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1	89	88	87	88	88	87	88	87	86	85	85	85	84	85
2	87	87	87	89	89	90	89	88	87	87	88	88	87	86
3	85	86	89	88	89	88	85	85	83	83	81	88	87	83
4	85	85	85	85	91	88	89	87	86	82	80	81	81	83
5	88	87	85	86	85	84	83	83	83	82	83	82	79	81
6	90	88	89	86	84	83	91	91	86	88	86	84	83	82
7	86	84	84	83	84	83	86	91	94	88	92	87	90	87
8	86	86	89	84	85	85	89	89	88	86	85	80	79	79
9	87	91	88	88	87	86	84	84	84	84	83	84	82	81
10	84	88	89	91	87	87	87	85	87	86	86	83	83	85
11	85	86	84	85	85	85	86	87	82	81	80	77	77	79
12	85	88	86	90	88	88	91	90	88	84	81	79	78	79
13	83	82	84	82	83	82	82	81	80	79	79	77	75	78
14	83	86	85	82	83	83	83	82	83	86	83	80	80	81
15	84	83	83	83	83	85	86	84	85	86	84	81	80	86
16	87	90	90	89	86	89	88	87	83	81	80	79	78	77
17	86	85	84	84	85	88	87	89	89	87	87	86	80	77
18	82	82	90	89	88	90	91	91	88	83	80	79	79	79
19	80	81	81	80	81	84	84	81	78	76	74	74	74	72
20	86	86	84	84	84	84	88	87	85	86	81	77	74	74
21	84	83	84	86	84	85	84	83	83	80	79	77	77	79
22	88	89	90	91	91	90	89	87	84	79	79	78	76	75
23	89	88	89	91	91	90	91	88	84	83	79	79	78	79
24	83	85	85	85	87	88	89	89	88	85	82	81	76	76
25	85	86	87	87	87	87	87	84	80	77	75	74	71	71
26	85	86	86	87	88	89	89	84	81	78	76	72	70	69
27	81	81	83	83	84	85	85	85	91	79	75	68	69	70
28	83	84	84	83	89	89	89	87	85	83	81	79	77	73
29	82	84	85	85	85	85	85	83	84	80	76	76	75	73
30	91	90	91	89	88	87	87	88	87	85	83	81	80	78
31	87	88	90	91	90	89	88	87	85	83	79	80	76	74
Mean . .	85·4	85·9	86·4	86·3	86·4	86·5	87·1	86·3	84·7	83·0	81·4	79·9	78·5	78·4
*Mean Vapour Pressure in inches of mercury.	·876	·875	·874	·871	·866	·864	·873	·885	·894	·897	·899	·909	·910	·909

*Computed from mean temperatures and mean relative humidities.

JULY. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.										Mean.	*Mean Vapour Pressure in inches of Mercury.	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
74	73	76	77	80	78	79	81	80	83	78·7	·925	1
71	72	72	73	76	78	79	80	81	82	79·1	·938	2
79	78	78	81	80	81	83	83	82	82	82·8	·948	3
86	88	89	89	88	88	88	89	89	89	86·0	·959	4
78	78	87	86	86	85	87	92	91	91	85·7	·950	5
85	81	87	86	84	83	84	85	91	91	88·5	·904	6
89	89	88	86	85	84	88	89	87	88	88·6	·908	7
92	91	90	88	87	86	84	85	86	86	90·0	·905	8
92	91	90	92	91	89	89	88	86	86	89·7	·893	9
92	91	91	88	87	88	87	89	91	93	91·5	·881	10
82	79	83	85	85	83	84	86	83	83	85·0	·915	11
81	79	78	79	81	81	82	81	88	88	81·8	·895	12
84	84	83	83	83	83	83	83	88	93	84·0	·907	13
88	86	85	83	85	83	84	84	86	87	86·2	·904	14
83	84	84	84	85	85	85	84	83	83	86·0	·868	15
83	81	83	81	83	84	85	85	86	85	84·1	·912	16
79	81	81	82	83	83	83	84	87	86	83·5	·905	17
79	80	81	82	81	81	83	84	85	84	83·1	·903	18
83	83	82	83	83	85	84	84	85	85	83·9	·909	19
79	81	80	85	85	84	84	85	83	85	83·2	·914	20
79	82	81	90	92	92	90	88	86	86	84·4	·908	21
88	86	83	87	86	91	91	92	91	88	86·4	·895	22
86	85	85	85	90	90	88	88	87	88	88·1	·903	23
81	81	83	82	82	86	91	91	91	92	86·5	·910	24
89	90	88	91	91	90	88	88	86	89	90·5	·866	25
93	87	86	85	85	86	86	87	89	91	88·3	·884	26
89	88	89	90	88	88	90	91	89	87	87·7	·905	27
82	81	82	82	86	85	85	85	85	85	86·2	·901	28
80	81	81	82	85	83	82	82	82	82	82·5	·880	29
81	81	83	86	86	87	86	90	91	85	84·3	·876	30
87	88	89	89	88	87	87	86	87	87	88·5	·893	31
83·7	83·2	83·8	84·6	85·1	85·1	85·5	86·1	86·5	86·8	85·6	·905	Mean.
·925	·922	·914	·911	·901	·899	·903	·900	·896	·893	·905		*Mean Vapour Pressure in inches of mercury.

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87	86	87	87	87	86	86	87	87	87	86·6	·906	1
85	84	85	87	87	86	87	85	85	85	86·9	·906	2
89	87	87	87	87	89	88	87	87	87	86·5	·884	3
86	83	86	85	87	88	87	88	88	87	85·6	·881	4
81	85	84	83	84	86	84	84	91	91	84 3	·873	5
83	82	89	89	86	89	86	84	86	85	86·3	·868	6
89	88	90	91	86	88	87	88	88	87	87·5	·871	7
81	82	82	83	85	85	85	85	85	87	84·6	·873	8
80	81	81	83	84	88	87	87	89	87	85·0	·880	9
90	84	83	83	83	85	86	87	86	85	85·8	·860	10
80	82	80	81	83	83	85	83	84	85	82·7	·876	11
79	76	77	80	81	79	81	81	84	84	83·2	·876	12
86	82	81	81	82	78	80	81	81	81	80·8	·850	13
87	80	78	79	81	80	81	87	87	88	82·8	·855	14
80	79	80	81	81	81	82	82	84	87	82·9	·867	15
78	79	81	83	80	78	80	82	83	86	83·1	·886	16
78	80	79	79	80	80	81	80	81	82	83·1	·880	17
77	75	76	74	75	78	80	81	80	81	81·9	·865	18
71	70	74	73	77	78	78	81	83	85	77·9	·839	19
75	71	72	75	77	77	77	77	78	80	80·0	·853	20
79	78	77	77	80	81	82	85	85	87	81·6	·870	21
76	76	78	81	82	84	85	85	87	87	83·6	·912	22
78	77	76	79	77	78	79	81	81	81	82·8	·918	23
75	73	74	78	79	80	81	81	83	83	81·9	·911	24
70	72	73	75	78	79	79	81	83	83	79·6	.891	25
69	68	70	72	76	77	79	79	80	80	78·8	.812	26
69	69	70	71	74	74	75	78	78	83	77·1	·877	27
70	75	73	74	74	75	77	79	80	81	80·2	·904	28
77	79	82	87	90	89	88	88	89	91	83·3	·921	29
80	81	85	87	88	89	88	88	89	90	86·3	·941	30
78	78	81	81	83	83	81	83	85	86	83·6	·939	31
79·5	78·8	79·7	80·8	81·7	82·3	82·6	83·4	84·4	85·1	83·1	·882	Mean.
·907	·899	·892	·879	·871	·869	·869	·872	·877	·881	·884		*Mean Vapour Pressure in inches of mercury.

*Computed from mean temperatures and mean relative humidities.

SEPTEMBER. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	87	88	89	89	90	90	89	87	85	82	80	78	73	74
2	84	87	88	86	91	91	92	91	90	90	90	89	90	91
3	92	89	89	89	92	93	93	92	91	89	89	87	85	84
4	91	92	92	92	93	91	91	89	93	92	92	91	87	86
5	95	94	94	94	94	93	91	92	91	91	92	90	88	89
6	89	88	87	87	87	87	89	88	88	89	87	86	85	87
7	88	87	89	90	89	89	88	89	87	83	84	81	79	80
8	87	86	89	92	85	86	93	89	87	85	88	85	83	82
9	82	85	87	86	87	87	87	85	86	83	80	80	77	77
10	78	84	86	87	85	82	82	86	88	87	81	79	76	74
11	81	81	82	84	86	91	89	87	87	84	80	80	77	77
12	80	79	80	81	81	79	81	80	78	75	74	72	72	72
13	80	81	81	79	81	82	82	82	78	75	74	73	72	71
14	79	81	80	82	85	86	88	85	83	83	83	78	75	76
15	84	82	83	84	84	85	87	88	87	86	84	83	75	72
16	82	82	83	87	86	86	88	87	87	87	86	81	81	73
17	80	80	79	78	79	79	82	80	77	75	75	72	71	72
18	90	90	88	92	91	89	91	90	84	82	79	77	77	75
19	80	80	81	82	80	81	82	79	77	75	72	73	72	70
20	85	86	86	88	89	90	89	88	84	81	77	74	73	72
21	84	86	84	84	85	84	86	84	81	78	75	73	73	71
22	86	86	89	89	87	86	87	85	83	82	76	71	71	74
23	83	81	80	80	80	80	81	78	78	80	80	71	66	68
24	76	76	78	81	32	83	82	81	79	77	77	73	72	74
25	84	84	84	85	86	84	83	82	77	73	70	71	72	72
26	81	82	83	83	83	84	83	79	78	75	72	72	73	72
27	86	87	88	88	88	88	88	85	80	77	75	76	73	71
28	86	86	89	89	87	87	86	87	83	82	81	79	78	78
29	83	84	86	89	89	88	88	86	83	81	79	77	76	74
30	83	85	86	84	84	84	86	83	81	80	79	77	77	74
Mean . .	84·2	84·6	85·3	86·0	86·2	86·2	86·8	85·5	83·7	81·9	80·2	78·3	76·6	76·2
*Mean Vapour Pressure in inches of mercury..	·858	·856	·855	·862	·861	·855	·867	·879	·895	·902	·909	·905	·903	·901

OCTOBER.

1	87	87	88	88	88	88	89	86	84	81	80	80	75	74
2	84	85	86	86	85	87	89	86	83	81	80	75	71	71
3	84	83	83	84	87	86	86	87	83	79	77	73	69	68
4	83	83	83	84	86	85	86	84	80	79	75	74	72	71
5	87	87	87	88	87	87	88	85	81	79	78	75	73	71
6	85	87	87	87	86	87	86	83	78	75	71	72	71	71
7	80	81	83	85	86	87	85	83	79	78	75	75	74	73
8	77	73	73	77	79	80	81	82	83	82	82	78	77	76
9	82	77	77	78	83	84	85	84	81	80	76	74	73	70
10	80	85	85	81	78	77	75	77	75	73	71	71	72	71
11	77	78	77	83	81	83	83	83	80	78	71	59	55	54
12	78	77	79	79	75	78	74	72	69	64	51	52	52	48
13	79	81	83	83	82	85	69	75	68	64	63	55	51	50
14	80	79	80	80	81	79	74	71	61	58	52	56	54	61
15	81	81	80	83	83	82	83	81	77	71	61	55	53	60
16	76	76	78	77	77	79	78	77	74	70	68	68	65	65
17	88	87	87	86	86	85	85	84	82	78	72	71	66	64
18	89	85	86	88	89	88	88	88	90	86	83	80	76	72
19	87	85	80	78	78	80	82	82	78	77	74	72	72	70
20	82	87	88	88	89	91	93	91	88	87	81	76	75	72
21	92	91	91	91	90	91	89	89	89	86	82	79	79	76
22	92	91	93	93	92	92	92	91	90	87	87	85	83	79
23	91	92	91	90	93	92	91	91	89	87	86	85	83	79
24	87	88	88	89	88	89	90	90	87	83	81	75	73	74
25	85	85	86	89	91	90	91	89	91	89	87	86	86	81
26	89	91	91	91	92	93	91	86	86	81	75	74	72	74
27	88	90	91	92	92	93	91	90	90	90	88	88	87	85
28	89	89	90	92	93	91	92	91	88	86	80	70	66	69
29	86	88	88	89	88	87	89	87	86	86	84	74	67	59
30	80	81	86	87	76	77	73	69	64	60	59	56	57	62
31	86	85	85	86	86	84	80	76	73	74	64	63	56	57
Mean . .	84·2	84·4	84·9	85·5	85·4	85·7	84·8	83·5	80·9	78·4	74·6	71·8	69·5	68·6
*Mean Vapour Pressure in inches of mercury.	·895	·883	·881	·882	·878	·876	·869	·882	·887	·891	·885	·877	·876	·878

*Computed from mean temperatures and mean relative humidities.

SEPTEMBER. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.										Mean.	*Mean Vapour Pressure in inches of mercury.	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
71	71	77	81	83	83	83	84	82	85	82·5	·954	1
92	91	93	87	86	87	87	90	90	91	89·3	·904	2
87	83	84	86	88	91	92	91	90	91	89·0	·928	3
85	84	87	89	91	93	95	96	94	92	90·7	·906	4
87	86	86	87	89	89	90	90	90	89	90·5	·901	5
87	86	86	87	89	87	87	87	86	87	87·2	·933	6
84	82	86	85	83	83	83	84	85	86	85·2	·914	7
81	81	82	82	82	83	82	84	85	85	85·0	·897	8
77	75	77	79	82	81	81	83	78	76	81·6	·887	9
74	74	75	77	80	80	86	83	83	82	81·2	·871	10
76	75	75	77	78	76	78	78	79	79	80·7	·860	11
71	70	73	75	76	76	78	78	80	79	76·7	·831	12
68	70	71	74	75	74	77	81	80	80	76·7	·831	13
76	78	77	77	78	80	80	81	83	83	80·7	·852	14
71	71	74	77	79	78	81	83	84	83	81·0	·869	15
80	77	74	75	76	77	80	78	78	78	81·4	·854	16
74	71	80	81	82	86	91	87	88	88	79·5	·837	17
74	74	75	75	78	77	79	80	79	79	81·9	·851	18
70	70	72	76	78	78	81	81	85	87	77·6	·844	19
71	71	70	72	75	79	78	79	80	82	80·0	·856	20
77	78	77	77	79	80	82	82	84	85	80·4	·846	21
70	71	74	75	77	79	80	81	81	82	80·1	·857	22
69	70	69	69	73	74	74	76	77	75	75·5	·818	23
73	70	73	77	77	79	78	83	84	83	77·8	·846	24
71	73	74	75	79	81	82	83	82	81	78·7	·858	25
72	72	75	77	80	81	81	82	83	85	78·7	·872	26
72	76	76	78	85	89	89	88	88	89	82·5	·912	27
74	75	79	79	74	74	74	76	80	82	81·0	·881	28
72	72	74	76	74	77	79	81	81	82	80·5	·907	29
75	75	76	78	78	80	81	83	85	87	80·9	·926	30
76·0	75·7	77·4	78·7	80·1	81·1	82·3	83·1	83·5	83·8	81·8	·877	Mean.
·896	·886	·886	·875	·860	·859	·866	·869	·865	·859	·876		*Mean Vapour Pressure in inches of mercury.

OCTOBER.

73	73	77	79	80	81	81	82	83	83	82·0	·970	1
71	72	76	77	79	79	81	83	85	85	80·7	·953	2
68	69	70	71	74	76	77	77	79	79	77·9	·901	3
71	71	71	74	77	77	77	80	83	85	78·8	·894	4
73	74	72	75	77	80	81	81	83	84	80·5	·928	5
69	70	73	72	76	77	77	78	78	77	78·0	·907	6
72	74	76	78	69	65	71	71	78	79	77·4	·918	7
73	77	74	79	82	83	84	81	84	84	79·2	·949	8
68	72	71	74	76	79	81	78	81	82	77·7	·907	9
74	72	76	76	76	77	77	77	77	74	76·1	·877	10
53	59	68	69	70	74	71	71	73	77	72·0	·879	11
50	51	54	57	62	64	70	73	75	77	65·9	·777	12
53	52	56	65	69	71	69	71	75	79	68 7	·802	13
61	62	63	67	71	72	76	73	76	77	69·3	·825	14
61	62	64	66	64	65	64	63	64	64	69·5	·811	15
65	66	68	71	79	85	85	86	86	87	75·3	·866	16
66	67	67	70	74	76	78	79	89	90	78·2	·872	17
73	09	72	75	76	79	82	83	83	85	81·9	·879	18
73	74	74	77	81	81	82	81	83	82	78·5	·873	19
72	75	84	88	89	91	91	91	92	91	85·5	·881	20
77	77	79	81	82	85	91	91	91	91	85·8	·900	21
79	77	77	79	82	82	83	84	87	85	85·9	·907	22
79	80	80	82	83	85	85	87	87	87	86·5	·890	23
75	76	75	79	81	83	84	84	85	86	82·9	·875	24
77	77	78	81	81	88	86	85	89	89	85·7	·882	25
73	75	81	81	81	82	85	86	87	83	83·3	·906	26
81	77	80	83	85	86	87	88	89	90	87·5	·874	27
71	70	74	80	81	82	83	82	85	86	82·5	·939	28
56	76	79	76	77	78	77	79	82	83	80·0	·931	29
60	61	65	68	72	75	78	81	81	81	71·2	·810	30
57	60	63	68	70	71	78	77	78	80	73·2	·821	31
68·5	69·9	72·2	74·8	76·6	78·4	79·7	80·1	82·2	82·6	78·6	8·84	Mean.
·880	·886	·890	·884	·883	·883	·886	·879	·888	·886	·883		*Mean Vapour Pressure in inches of mercury.

* Computed from mean temperatures and mean relative humidities.

NOVEMBER. (THE FIGURES REPRESENT PERCENTAGES.)

Date.	Hours.													
	0—1	1—2	2—3	3—4	4—5	5—6	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14
1	80	79	84	85	85	84	82	79	74	73	66	58	55	53
2	76	75	64	63	66	67	72	67	60	56	54	51	51	50
3	82	83	82	81	81	80	79	80	79	72	68	62	57	54
4	78	81	82	83	84	82	80	77	71	63	62	58	61	57
5	72	75	74	73	70	75	81	79	78	73	68	59	56	54
6	77	77	80	78	79	78	71	70	69	70	66	62	61	61
7	74	73	73	74	70	70	69	65	66	66	63	60	57	57
8	78	80	78	80	80	81	79	78	77	69	58	47	46	47
9	74	73	77	76	81	82	82	78	75	71	66	60	58	50
10	78	82	83	81	81	78	77	74	73	68	62	50	41	42
11	62	65	66	71	73	74	75	68	63	61	59	53	47	38
12	72	72	70	74	72	65	69	69	68	61	54	51	38	35
13	68	69	74	72	72	72	74	71	64	59	52	45	43	42
14	69	67	75	74	76	76	76	74	72	68	61	53	46	45
15	72	79	77	76	74	75	79	79	74	64	56	53	46	51
16	82	81	74	76	77	74	75	72	75	67	61	51	51	51
17	78	80	78	77	76	75	75	75	72	70	70	62	63	65
18	82	82	79	81	79	81	84	83	76	75	73	66	62	62
19	78	82	85	81	77	77	82	78	77	70	60	61	58	59
20	81	78	80	75	79	74	73	71	68	71	66	61	62	63
21	81	81	85	86	85	85	85	83	83	79	72	66	59	58
22	80	73	70	72	75	73	69	66	62	57	51	44	38	37
23	68	66	71	72	70	70	70	63	54	53	44	42	42	37
24	68	65	67	63	70	76	79	76	72	72	67	58	49	43
25	70	69	72	75	73	73	72	69	67	64	58	54	48	45
26	59	60	64	67	69	68	68	65	52	51	50	49	47	50
27	67	64	68	68	67	63	64	64	62	61	57	54	54	55
28	74	75	76	79	78	80	80	76	77	73	67	62	59	60
29	87	87	85	87	88	87	85	84	81	76	70	67	68	70
30	84	84	84	85	85	89	90	87	85	82	76	71	68	71
Mean . .	75·0	75·2	75·9	76·2	76·4	76·1	76·5	74·0	70·9	67·2	61·9	56·3	53·0	52·1
*Mean Vapour Pressure in inches of mercury.	·718	·713	·710	·706	·701	·691	·690	·692	·694	·694	·680	·653	·645	·650

DECEMBER.

1	79	82	81	83	83	84	84	82	80	77	77	75	73	65
2	82	83	86	86	85	85	86	83	82	74	67	65	56	57
3	84	82	80	78	77	81	79	77	76	72	61	55	45	54
4	62	65	65	67	71	70	67	68	66	65	59	51	51	53
5	68	68	73	74	74	76	77	77	73	65	61	56	53	55
6	76	77	77	79	81	85	83	81	75	71	69	64	58	59
7	81	81	81	83	83	87	87	84	81	77	74	71	69	65
8	80	86	87	88	88	84	86	83	75	75	71	66	57	58
9	84	83	83	82	80	80	81	77	75	68	64	58	57	57
10	73	75	75	77	79	78	81	81	75	73	66	62	51	48
11	77	79	79	81	78	79	72	74	71	70	62	57	50	50
12	81	84	79	77	76	70	69	68	68	64	57	52	51	46
13	69	76	77	75	77	74	74	72	72	70	66	57	51	50
14	70	74	74	79	81	81	81	79	73	66	62	61	46	41
15	71	72	73	74	74	75	76	76	74	65	61	56	49	49
16	77	83	88	83	83	83	81	79	77	69	62	58	48	47
17	80	81	78	78	78	79	75	69	61	54	58	53	43	40
18	74	67	67	69	70	64	59	56	56	57	50	42	39	39
19	73	70	74	66	57	59	53	55	56	49	51	45	34	37
20	74	69	72	72	69	62	57	56	54	56	51	45	42	42
21	82	81	78	77	74	76	68	67	62	64	56	58	50	33
22	62	64	62	63	67	67	70	67	67	64	59	51	47	51
23	84	85	83	84	85	85	84	84	81	81	71	71	70	68
24	87	86	88	89	89	88	88	88	86	83	79	76	66	63
25	78	80	84	81	81	84	83	81	79	74	64	62	60	58
26	70	71	71	68	67	78	76	73	71	70	65	55	54	55
27	73	73	78	78	78	75	73	76	73	69	60	56	54	54
28	65	65	66	65	70	69	67	67	72	70	59	58	58	59
29	79	77	75	75	76	76	70	62	51	44	42	38	38	43
30	58	58	53	50	52	60	56	55	48	41	39	44	43	43
31	65	71	70	68	68	73	69	68	67	59	57	61	55	53
Mean . .	74·8	75·7	76·0	75·8	75·8	76·4	74·6	73·1	70·2	66·3	61·3	57·4	52·2	51·4
*Mean Vapour Pressure in inches of mercury.	·637	·640	·630	·625	·616	·613	·596	·602	·606	·602	·598	·594	·573	·583

*Computed from mean temperatures and mean relative humidities.

NOVEMBER. (THE FIGURES REPRESENT PERCENTAGES.)

Hours.										Mean.	*Mean Vapour Pressure in inches of mercury.	Date.
14—15	15—16	16—17	17—18	18—19	19—20	20—21	21—22	22—23	23—24			
											"	
52	52	55	61	73	75	73	77	79	79	71·6	·804	1
49	55	61	68	71	71	74	74	74	78	64·5	·697	2
53	56	59	62	67	70	74	74	77	71	71·0	·742	3
56	55	56	60	63	65	64	65	67	78	63·7	·716	4
55	58	62	64	64	67	67	67	74	77	68·4	·725	5
66	66	66	71	75	77	77	78	80	77	72·2	·800	6
62	63	67	69	73	76	78	78	77	78	69·1	·759	7
48	49	55	58	59	64	68	71	69	72	66·3	·723	8
51	54	66	68	70	71	75	72	71	75	69·8	·754	9
54	56	59	62	66	63	60	56	66	66	65·7	·705	10
34	47	54	58	60	61	68	73	73	72	61·5	·639	11
41	44	44	46	55	60	60	61	64	73	59·1	·573	12
43	43	44	53	58	63	63	70	83	72	61·3	·585	13
49	51	54	60	63	65	65	63	69	68	64·1	·603	14
52	54	57	62	66	70	75	73	71	79	67·3	·638	15
54	57	59	65	69	74	72	67	65	74	67·6	·649	16
64	66	69	75	77	78	80	82	82	82	73·8	·760	17
67	69	74	76	81	80	82	82	82	79	76·5	·815	18
63	67	71	68	70	73	75	72	74	80	72·4	·769	19
62	65	71	75	76	76	68	65	74	81	71·5	·757	20
60	59	68	73	77	78	78	74	76	77	75.3	·843	21
41	50	55	63	63	67	68	68	69	63	61.4	·650	22
35	37	48	51	56	63	60	57	67	64	**56·7**	**·544**	23
41	51	61	62	62	59	54	53	60	64	62·2	·585	24
42	47	55	60	55	57	63	60	57	57	60·9	·589	25
51	54	56	57	59	57	56	61	62	63	58·1	·569	26
55	62	68	73	70	72	67	67	70	74	64.4	·669	27
66	69	74	76	82	83	83	89	86	87	75·5	·825	28
72	76	80	82	85	87	87	85	87	85	**81·2**	**·894**	29
69	69	74	79	83	83	73	70	78	80	79·1	·852	30
53·6	56·7	61·4	65·4	68·3	70·2	70·3	70·1	72·8	74·2	67·9	·708	Mean.
·671	·697	·712	·720	·733	·741	·723	·705	·713	·722	·699		*Mean Vapour Pressure in inches of mercury.

DECEMBER.

66	69	68	71	74	78	80	78	78	81	77·0	·829	1
64	71	70	71	71	77	78	80	81	80	75·8	·811	2
59	55	61	67	68	68	68	67	73	63	68·7	·702	3
53	54	59	63	65	65	66	64	71	74	63·3	·628	4
54	56	64	68	70	71	66	67	74	77	67·4	·652	5
57	56	59	61	65	70	69	73	76	74	70·6	·669	6
63	62	68	72	74	74	76	78	81	73	76·0	·713	7
61	65	70	72	72	74	76	73	74	80	75·0	·706	8
58	58	62	67	69	71	68	62	69	75	70·3	·675	9
49	54	57	63	68	70	74	79	73	74	69·0	·687	10
53	57	60	64	66	70	76	75	77	78	69·0	·676	11
42	53	58	64	68	70	74	68	65	65	65·4	·645	12
52	56	59	66	67	68	73	74	71	71	67·3	·646	13
53	59	63	68	71	74	76	69	67	72	68·3	·650	14
55	60	66	71	74	77	81	78	75	71	68·9	·661	15
48	56	61	67	70	72	73	75	70	73	70·1	·673	16
38	40	60	68	71	74	67	70	67	66	64·5	·630	17
43	50	56	59	66	69	64	67	66	71	59·2	·559	18
45	47	59	65	70	72	70	70	75	77	59·5	·553	19
48	49	57	64	68	73	74	77	79	77	62·0	·570	20
28	30	46	62	68	63	57	53	68	63	61·0	·570	21
55	62	67	71	78	80	84	87	84	84	67·2	·624	22
67	67	71	71	71	74	78	81	83	83	77·6	·698	23
59	61	64	68	73	75	76	79	79	79	**77·9**	·689	24
57	59	62	67	68	66	70	69	71	70	71·2	·595	25
54	56	60	62	65	67	71	72	73	71	66·5	·530	26
54	59	63	67	67	70	66	63	62	66	67·0	·554	27
60	58	64	72	70	67	69	69	72	76	66·1	·556	28
46	50	53	54	57	57	55	53	53	55	57·5	·458	29
43	48	53	60	63	64	62	62	59	59	**53·0**	**·407**	30
54	57	61	67	75	76	77	78	80	81	67·1	·576	31
53·0	55·9	61·3	66·2	69·1	70·8	71·4	71·3	72·5	72·9	67·7	·632	Mean.
·605	·626	·651	·663	·668	·673	·661	·639	·634	·627	·623		*Mean Vapour Pressure in inches of mercury.

* Computed from mean temperatures and mean relative humidities.

Notation :—H=High clouds (Ci, Ci-S.) ; M=Medium clouds;

JANUARY.

Date.	Cloud Forms (coming from)									Cloud Amount (All Forms).					
	8½h.			12½h.			16½h.								
	H.	M.	L.	H.	M.	L.	H.	M.	L.	6h.	8h.	10h.	12½h.	16½h.	22h.
1	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
2	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
3	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
4	..	SW	..	..	W	..	..	W	..	0	4	7	2	2	0
5	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
6	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
7	S	..	..	S	..	..	..	..	..	0	1	4	3	0	0
8	SW	..	..	..	..	..	..	..	..	4	5	2	0	0	0
9	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
10	..	..	..	S	..	..	SW	..	..	0	0	0	2	6	1
11	SW	..	..	SE	..	..	..	..	..	3	4	3	2	0	0
12	SW	..	..	NW	..	..	..	..	..	4	3	2	2	0	0
13	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
14	..	..	..	WSW	..	..	SW	..	..	0	0	0	1	1	0
15	W	..	..	W	..	..	SW	..	..	1	6	4	4	5	0
16	SW	..	..	NW	..	..	NW	..	..	1	4	1	2	1	0
17	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
18	..	..	..	..	..	..	NW	..	..	0	0	0	0	2	0
19	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
20	SW	..	..	SW	..	..	W	..	..	1	4	4	5	3	2
21	SE	..	..	SE	..	..	..	..	..	3	2	2	2	0	0
22	W	..	..	W	..	..	SW	..	..	3	4	3	3	5	0
23	W	..	..	E	..	..	..	..	..	1	1	1	1	0	0
24	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
25	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
26	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
27	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
28	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
29	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
30	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
31	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
Mean cloud amount.										0·7	1·2	1·1	0·9	0·8	0·1

MARCH.

1	..	SW	..	..	..	NW	..	..	E	1	2	1	1	1	1
2	..	..	SW	..	..	E	..	..	NE	0	0	0	1	2	0
3	S	..	..	..	..	E	..	..	E	1	1	0	1	1	3
4	WSW	..	W	..	SW	E	WSW	..	SW	3	5	3	4	6	4
5	..	..	W	..	..	E	..	..	E	4	1	1	1	1	0
6	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
7	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
8	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
9	..	..	..	..	..	SW	..	..	..	0	0	0	3	0	0
10	..	..	..	..	..	..	W	..	..	0	0	0	0	1	0
11	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
12	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
13	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
14	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
15	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
16	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
17	..	..	..	..	..	..	..	..	..	0	0	2	0	0	0
18	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
19	..	..	..	..	..	..	..	..	..	0	0	0	0	0	1
20	..	..	E	..	..	..	..	..	..	0	0	0	0	0	1
21	..	..	NW	..	..	..	..	..	..	0	5	0	0	0	0
22	..	..	W	..	..	..	..	..	S	0	4	0	0	1	0
23	..	..	S	..	SE	W	..	..	E	7	6	8	4	1	1
24	..	..	S	..	..	E	..	..	E	4	3	0	1	2	2
25	..	..	S	..	..	S	..	..	..	3	2	3	4	0	0
26	..	..	S	..	..	..	..	..	..	0	1	0	0	0	0
27	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
28	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
29	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
30	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
31	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
Mean cloud amount.										0·7	1·0	0·6	0·6	0·5	0·4

(Ci-Cu, A-Cu, A-S) ; L=Low clouds (Cu, Cu-N, S, N) ; ..=No cloud.

FEBRUARY.

Cloud Forms (coming from)									Cloud Amount (All Forms).						Date.
8½h.			12½h.			16½h.									
H.	M.	L.	H.	M.	L.	H.	M.	L.	6h.	9h.	10h.	12½h.	16½h.	22h.	
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	1
..	..	W	..	..	NW	..	..	W	2	7	6	2	2	1	2
..	..	..	..	..	W	..	..	..	0	0	4	1	0	0	3
..	..	NW	..	..	..	..	..	..	0	3	1	0	0	0	4
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	5
..	..	..	..	..	N	..	..	..	0	0	1	1	0	0	6
..	..	W	..	..	NW	..	..	NW	2	3	2	1	5	3	7
..	..	NW	..	..	N	..	..	..	6	7	2	1	0	0	8
NW	..	..	WSW	..	..	SW	..	..	0	6	2	4	2	0	9
..	..	..	..	..	..	..	..	..	2	0	0	0	0	0	10
..	..	..	..	..	..	..	..	..	2	0	0	0	0	0	11
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	12
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	13
..	..	W	..	..	SW	..	..	..	2	1	1	1	0	0	14
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	15
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	16
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	17
..	..	..	..	..	SW	..	SW	E	0	0	0	3	2	0	18
..	..	E	..	..	..	..	..	..	2	3	1	0	0	0	19
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	20
SW	..	..	S	..	SW	SW	S	..	1	3	5	5	6	0	21
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	22
S	..	SE	SE	..	..	..	..	..	2	3	4	1	0	0	23
..	..	SE	..	..	E	..	..	..	2	1	1	1	0	4	24
..	..	..	..	..	NE	..	..	..	0	0	1	1	0	2	25
..	..	SE	SW	..	E	..	..	E	1	1	2	3	1	0	26
SW	NE	..	..	..	E	..	..	..	6	7	4	2	0	0	27
..	..	..	..	..	..	..	..	..	1	0	0	0	0	0	28
SE	..	SE	E	..	..	..	..	..	1	2	4	1	0	0	29
									1·1	1·6	1·4	1·0	0·6	0·3	Mean cloud amount.

APRIL.

..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	1
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	2
..	..	S	..	..	..	..	..	..	0	1	0	0	0	0	3
..	..	..	..	..	..	..	..	NW	3	0	0	0	3	0	4
..	..	SE	..	..	..	..	..	..	5	9	3	0	0	0	5
NE	..	SW	..	W	SW	..	..	NW	5	3	2	5	3	0	6
..	..	W	..	..	..	..	..	..	0	0	0	0	0	4	7
..	..	NW	..	..	..	..	..	..	3	6	3	0	0	0	8
NE	..	SW	SW	..	..	W	..	..	4	6	7	8	5	3	9
..	..	..	..	..	SW	..	..	S	4	0	4	1	6	2	10
..	..	W	..	..	..	..	..	..	2	1	0	0	0	0	11
..	..	S	..	..	..	..	..	W	8	4	0	0	2	0	12
..	..	WSW	..	..	..	..	..	W	7	6	2	0	6	0	13
..	..	SSE	..	..	W	..	..	SW	4	6	2	0	4	3	14
..	..	SW	..	..	WSW	..	..	W	3	5	5	6	2	0	15
..	..	S	..	..	SW	..	..	SW	5	6	3	4	3	5	16
..	..	S	..	..	SW	..	..	..	7	4	4	0	0	6	17
..	..	NW	..	..	..	..	..	..	7	4	0	0	0	6	18
..	..	NW	..	..	..	..	..	..	5	3	3	0	0	3	19
..	..	N	..	..	..	..	..	..	4	3	0	0	0	0	20
..	..	N	E	..	..	W	..	..	5	7	3	3	6	2	21
..	..	NW	N	..	..	NW	..	..	3	7	4	3	2	3	22
W	..	N	W	..	NW	SW	..	..	6	5	8	9	6	5	23
..	..	NW	..	..	E	..	..	E	6	4	3	3	1	3	24
..	..	N	SW	..	E	NW	..	NE	4	5	8	3	4	2	25
..	..	E	W	..	N	W	..	..	5	4	4	4	1	4	26
..	..	NW	WSW	..	..	W	SW	E	8	10	9	7	9	5	27
W	..	N	SW	..	W	..	W	E	5	6	5	8	6	2	28
SW	..	..	SW	..	..	SW	..	NE	3	2	1	6	4	2	29
..	..	..	..	..	E	..	..	E	2	0	0	1	2	1	30
									4·1	3·9	2·8	2·4	2·5	2·0	Mean cloud amount.

Notation :—H=High clouds (Ci, Ci-S) ; M=Medium clouds.

MAY.

Day.	Cloud Forms (coming from) 8½h. H.	M.	L.	12½h. H.	M.	L.	16½h. H.	M.	L.	Cloud Amount (All Forms). 6h.	8h.	10h.	12½h.	16½h.	22h.
1	..	..	..	..	..	E	..	..	E	2	0	0	0	1	0
2	..	..	..	..	..	SW	..	..	..	0	0	0	1	0	0
3	..	..	N	..	..	..	..	..	..	0	3	0	0	0	0
4	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
5	..	..	NW	..	..	WSW	..	..	W	2	4	3	4	3	0
6	..	..	N	..	..	..	..	..	..	4	3	0	0	0	5
7	..	..	N	..	..	..	..	..	..	2	4	2	0	0	6
8	..	..	N	..	..	..	..	..	..	1	5	3	0	0	5
9	..	..	W	..	..	W	..	..	..	4	6	2	0	0	5
10	..	..	NW	..	..	W	..	..	W	3	4	5	5	1	0
11	..	..	W	..	..	E	..	..	..	5	7	5	0	0	0
12	..	..	W	..	..	..	SE	..	E	7	3	0	0	2	7
13	..	..	W	SE	..	..	SE	..	NE	6	5	0	1	2	2
14	..	..	W	..	..	..	..	..	S	3	1	0	0	1	0
15	E	..	..	E	..	..	..	..	..	5	1	0	0	0	1
16	..	..	NE	E	..	..	E	..	..	1	3	3	2	1	7
17	..	..	N	..	..	W	..	..	W	3	4	2	5	6	0
18	..	..	N	SE	..	..	W	..	E	3	5	2	5	3	3
19	..	W	SW	W	SW	..	S	..	E	10	10	8	8	4	9
20	..	SE	E	..	SE	S	..	E	NW	10	8	8	6	10	10
21	..	E	W	..	SW	E	..	..	E	10	9	5	5	7	10
22	N	..	S	..	..	E	..	..	S	6	4	3	4	10	10
23	..	..	SW	..	..	S	..	..	SE	6	6	2	5	4	3
24	..	..	S	..	..	S	..	..	SW	6	4	8	4	6	2
25	W	..	SW	..	..	SW	SE	..	SW	6	7	7	7	8	2
26	..	..	SW	..	..	S	..	..	S	5	7	5	5	6	2
27	..	..	W	..	..	WSW	..	..	W	6	3	3	3	4	1
28	..	..	W	..	..	W	NW	..	E	4	5	3	3	3	4
29	..	..	W	..	..	W	..	..	W	5	8	5	3	7	2
30	..	..	SW	SW	..	W	S	..	SW	5	4	4	7	7	3
31	SW	..	W	..	..	NW	W	..	..	2	4	3	1	3	2
Mean cloud amount.										4·3	4·4	3·0	2·7	3·2	3·3

JULY.

1	..	..	WSW	..	..	SW	..	..	W	6	4	5	6	3	4
2	..	..	SW	..	..	E	SE	..	W	6	3	3	3	7	2
3	..	..	S	..	..	SW	..	..	W	9	10	8	8	10	10
4	..	..	NW	..	..	W	..	..	NW	8	5	6	10	10	10
5	..	..	SW	..	..	W	..	..	W	10	10	7	7	10	10
6	..	..	SW	..	..	W	..	..	W	10	10	10	10	10	10
7	..	..	SW	..	..	SW	..	..	W	10	10	10	10	10	8
8	..	..	W	..	..	W	..	..	SW	10	10	10	10	10	10
9	..	..	SW	..	..	SW	..	..	SW	10	10	10	10	10	9
10	..	..	SW	..	..	W	..	..	SW	10	10	10	10	10	10
11	..	..	SW	..	..	SW	..	..	SW	10	9	9	10	10	8
12	..	..	SW	..	..	W	..	..	SW	9	10	8	9	8	10
13	..	..	SW	..	..	W	..	..	SW	8	10	10	10	10	10
14	..	..	SW	..	..	SW	..	..	SW	10	10	10	10	10	10
15	..	..	SW	..	..	SW	..	..	W	10	10	10	10	10	10
16	..	..	SW	..	..	SW	..	..	SW	10	10	10	10	10	8
17	..	..	W	..	..	W	..	..	W	10	10	10	8	8	10
18	..	..	W	E	..	SW	..	..	SW	8	9	10	8	10	10
19	..	..	W	..	W	SW	..	..	W	10	10	10	10	10	7
20	..	S	W	..	SW	W	..	..	W	10	10	10	9	10	10
21	..	..	SW	..	S	W	..	..	W	8	10	10	9	8	10
22	..	..	W	..	..	W	..	..	W	10	10	10	10	10	10
23	..	..	W	..	..	W	..	..	W	10	10	10	10	10	9
24	..	..	W	..	..	W	..	..	W	10	10	10	10	10	10
25	..	..	W	..	..	W	..	..	W	10	10	10	10	10	10
26	..	..	SW	..	..	SW	..	..	W	10	10	10	10	10	10
27	..	NE	W	..	NW	W	..	..	W	10	8	10	10	10	10
28	..	..	W	..	..	SW	..	..	WSW	10	4	9	6	8	7
29	..	..	SW	..	SW	W	..	..	SW	8	10	9	9	10	10
30	..	..	SW	..	..	W	..	..	W	10	10	10	10	10	10
31	..	..	W	..	..	W	..	..	W	10	10	10	10	10	10
Mean cloud amount.										9·4	9·1	9·2	9·1	9·4	9·1

(Ci-Cu, A-Cu, A-S); L=Low clouds (Cu, Cu-N, S, N); .. =No cloud.

JUNE.

Cloud Forms (coming from)									Cloud Amount (All Forms).						Date.
8½h.			12½h.			16½h.			6h.	8h.	10h.	12½h.	16½h.	22h.	
H.	M.	L.	H.	M.	L.	H.	M.	L.							
..	..	W	..	..	SW	..	..	W	3	1	2	5	5	1	1
..	..	SW	..	..	S	..	..	NW	3	4	5	5	7	3	2
..	..	E	..	..	W	..	..	W	5	5	4	9	9	3	3
..	..	W	..	..	E	E	..	SW	8	6	7	6	4	3	4
..	..	SW	..	..	W	NW	..	W	9	9	5	4	6	4	5
..	..	SW	..	..	W	..	..	W	3	5	4	2	6	1	6
..	..	SW	..	..	W	..	..	W	4	6	6	5	3	1	7
..	..	W	..	..	W	..	..	W	3	4	2	5	3	1	8
..	..	W	..	..	W	NW	..	W	4	7	4	3	8	1	9
NE	..	W	N	..	W	..	..	W	5	7	5	5	8	4	10
..	..	W	..	..	W	..	..	W	3	4	6	6	5	4	11
..	..	W	..	..	SW	..	..	W	4	3	2	5	4	4	12
..	..	WSW	..	..	W	..	..	W	5	4	7	9	6	6	13
..	..	W	..	..	W	..	..	W	6	3	2	5	4	4	14
..	..	SW	..	..	WSW	..	..	W	3	5	5	5	3	8	15
..	..	SW	..	..	W	..	..	W	8	9	9	9	10	6	16
..	..	N	..	..	WSW	SW	..	W	0	3	1	5	4	10	17
..	..	NW	..	..	NW	..	..	S	10	10	10	10	9	10	18
..	..	W	..	..	SW	..	N	NW	10	9	3	6	10	10	19
..	..	SW	..	..	SW	..	..	SW	10	10	10	10	10	10	20
..	..	WSW	..	..	W	..	..	W	10	8	9	8	9	10	21
..	..	SW	..	..	SW	..	..	SW	10	10	10	10	10	10	22
..	..	W	..	..	SW	..	..	SW	10	10	10	10	10	10	23
..	..	W	..	..	W	..	..	NW	10	10	10	10	10	10	24
..	..	W	..	..	SW	..	..	SW	10	10	8	10	10	10	25
..	..	W	..	..	SW	..	..	SW	10	7	7	6	8	7	26
..	..	SW	..	..	SW	..	..	NW	10	10	7	10	6	4	27
..	..	SW	..	..	W	..	..	SW	8	9	5	4	6	4	28
E	..	W	..	..	W	..	E	W	6	5	6	6	7	7	29
..	..	SW	..	..	SW	..	..	W	8	5	5	5	4	3	30
									6·6	6·6	5·9	6·7	6·8	5·6	Mean cloud amount.

AUGUST.

..	..	W	..	..	SW	..	..	W	10	10	10	10	10	10	1
..	..	SW	..	..	W	..	..	W	10	10	10	10	10	5	2
..	..	W	..	..	W	..	..	W	10	10	10	10	9	10	3
..	..	W	..	..	SW	..	..	W	10	8	6	10	10	9	4
..	..	W	..	..	W	..	SW	W	8	10	10	8	7	8	5
..	..	W	..	..	SW	..	..	W	10	10	10	10	10	9	6
..	..	W	..	..	W	..	..	W	10	10	10	10	10	10	7
..	..	W	..	..	W	..	..	W	10	10	10	8	10	10	8
..	..	SW	..	..	SW	..	..	W	10	10	9	7	9	10	9
..	..	W	..	W	SW	..	W	SW	10	10	10	10	10	10	10
..	W	SW	..	..	SW	..	..	W	8	9	4	7	6	7	11
W	..	W	..	..	SW	..	..	W	7	4	4	6	4	6	12
..	..	W	..	..	W	..	..	W	4	3	8	10	10	3	13
..	..	W	..	..	W	..	..	SW	6	10	10	10	8	10	14
..	..	W	..	..	WNW	..	..	W	5	10	7	6	8	8	15
..	..	W	..	..	W	..	..	W	5	7	5	6	7	10	16
..	..	W	..	..	WNW	..	W	NW	10	10	9	4	10	10	17
..	..	W	..	..	WNW	..	..	NW	10	7	8	4	5	8	18
..	..	NW	..	..	NW	N	..	E	3	4	3	3	5	4	19
..	..	NW	..	..	NW	N	..	NW	6	9	7	5	5	10	20
..	E	N	..	NE	NW	..	E	NW	10	10	10	10	10	8	21
E	..	N	NW	..	NW	..	..	W	9	4	8	3	9	4	22
..	..	..	..	..	W	..	..	NW	8	4	7	2	9	10	23
..	..	NW	..	NW	NW	NW	..	W	10	10	9	7	6	7	24
NE	..	N	NE	..	N	NE	..	E	8	7	6	6	7	8	25
SE	..	W	W	..	E	SE	..	E	8	4	4	2	2	3	26
..	E	SE	NE	SW	E	NE	..	NW	4	5	6	8	4	3	27
..	..	N	..	W	N	NW	..	NE	8	8	7	8	6	9	28
..	E	N	..	SE	NE	..	..	SW	6	8	7	7	10	10	29
..	NE	N	NW	..	E	..	..	E	8	7	5	5	10	3	30
NE	..	N	SW	..	NE	..	..	NE	8	7	6	4	10	10	31
									8·0	7·9	7·6	7·0	7·9	7·8	Mean cloud amount.

133517

Notation :—H=High clouds (Ci, Ci-S); M=Medium clouds.

SEPTEMBER.

Date.	Cloud Forms (coming from)									Cloud Amount (All Forms).					
	8½h.			12½h.			16½h.								
	H.	M.	L.	H.	M.	L.	H.	M.	L.	6h.	8h.	10h.	12½h.	16½h.	22h.
1	E	..	NW	W	..	E	..	..	N	7	6	6	4	10	10
2	..	..	E	..	..	NW	..	..	NW	10	9	10	10	10	2
3	..	..	N	..	..	NW	..	W	NW	10	10	10	10	10	10
4	..	..	SW	..	..	SW	..	..	SE	10	10	10	8	10	10
5	..	..	W	..	..	W	..	..	W	10	10	10	10	10	10
6	..	E	W	..	NE	W	..	..	W	10	10	10	10	10	10
7	..	..	W	..	..	W	..	..	W	10	7	6	8	10	7
8	..	E	W	..	NE	W	..	..	W	10	10	10	10	10	9
9	..	..	W	..	..	W	..	..	W	8	9	7	6	8	9
10	..	E	W	SW	..	W	..	..	W	9	9	7	7	6	5
11	..	..	W	..	..	W	..	..	W	6	5	5	8	9	4
12	..	..	W	..	..	W	..	..	W	6	5	4	4	5	5
13	..	..	WNW	..	..	W	..	..	W	6	7	7	6	3	4
14	..	..	NW	..	W	NW	..	W	N	8	6	8	9	10	10
15	..	..	N	..	..	NW	..	..	W	10	10	8	8	7	10
16	..	..	NW	..	N	SW	..	..	WNW	10	10	10	10	6	7
17	..	..	WNW	..	..	NW	..	..	W	10	6	7	7	10	10
18	..	..	NW	..	..	NW	..	..	W	7	8	5	7	4	4
19	..	..	W	..	..	W	..	..	NW	4	5	4	5	6	7
20	..	..	W	..	..	NE	E	..	NW	5	4	4	2	6	3
21	..	..	W	..	..	W	..	..	W	4	5	4	7	8	3
22	..	..	N	..	NE	NW	..	NE	NW	6	4	5	7	8	7
23	..	..	W	..	..	NW	..	..	NW	6	10	9	7	10	4
24	..	..	SW	..	..	E	..	..	S	4	2	5	2	3	4
25	..	..	SW	..	..	E	..	..	S	4	2	2	3	3	2
26	..	..	SW	..	..	E	..	..	SW	2	1	2	2	3	10
27	..	..	N	..	W	W	..	S	NW	6	5	4	6	10	4
28	NE	..	..	NE	..	NW	..	..	NW	4	3	8	6	10	4
29	NE	..	..	..	..	N	..	..	N	1	trace	4	2	4	4
30	..	..	N	W	..	SW	..	..	W	4	3	4	6	7	4
Mean cloud amount.										6·9	6·4	6·5	6·6	7·5	6·4

NOVEMBER.

1	..	..	W	..	..	E	..	..	E	3	4	5	2	1	1
2	S	..	E	SE	..	SE	E	..	..	7	6	5	3	1	1
3	SE	..	..	NW	..	..	N	..	..	2	3	2	2	1	0
4	..	..	S	..	..	..	..	..	..	4	3	0	0	0	3
5	..	SE	E	..	NW	E	..	..	SW	7	6	4	3	10	10
6	..	SE	S	..	SW	S	..	..	S	5	7	7	9	7	8
7	SE	..	NE	SE	..	E	E	..	NE	6	7	8	5	8	2
8	..	SE	E	SE	..	..	SE	..	..	4	3	2	2	1	5
9	SW	..	SE	SW	..	..	SW	..	..	6	4	3	3	3	5
10	SW	..	..	SW	..	..	SE	..	..	1	2	2	2	1	0
11	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
12	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
13	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
14	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
15	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
16	..	..	..	..	..	..	..	..	..	0	0	0	0	0	0
17	..	..	..	..	..	E	..	..	E	2	0	0	1	2	0
18	..	..	..	..	..	E	..	..	E	2	0	0	1	2	1
19	..	..	..	..	..	E	..	..	E	0	0	0	1	2	0
20	..	..	..	..	..	E	..	..	E	1	0	0	1	3	0
21	..	..	E	..	..	E	..	..	E	5	6	1	1	2	2
22	..	..	..	..	..	..	..	..	..	2	0	0	0	0	0
23	..	..	..	E	..	..	SW	..	..	1	1	2	3	8	0
24	SE	..	..	SE	..	..	SW	..	..	2	9	9	8	9	4
25	E	..	..	SE	..	..	SW	SE	..	8	5	7	5	6	5
26	NE	..	E	..	..	..	..	..	SW	9	4	1	0	10	10
27	..	..	E	E	..	..	..	SE	E	2	1	1	1	2	2
28	SW	..	..	SW	..	E	W	..	E	9	2	4	6	8	2
29	..	..	NE	..	S	E	SE	..	E	5	1	trace	3	6	10
30	..	..	E	..	..	E	..	..	E	2	3	1	2	2	10
Mean cloud amount.										3·2	2·6	2·1	2·1	3·2	2·7

(Ci-Cu, A-Cu, A-S); L=Low clouds (Cu, Cu-N, S, N); ..=No cloud.

OCTOBER.

Cloud Forms (coming from)									Cloud Amount (All Forms).						Date.
8½h.			12½h.			16½h.									
H.	M.	L.	H.	M.	L.	H.	M.	L.	6h.	8h.	10h.	12½h.	16½h.	22h.	
..	..	S	..	..	N	..	NE	N	5	4	5	3	10	4	1
..	..	NW	..	..	NE	..	W	NE	7	8	9	6	10	4	2
..	..	W	..	..	NW	..	..	E	5	4	5	3	2	4	3
..	..	W	SE	..	NW	NE	..	E	4	3	4	4	5	5	4
..	..	E	..	..	N	..	..	NE	4	8	5	2	8	4	5
..	..	E	E	..	E	..	S	E	3	2	2	4	10	4	6
E	..	..	S	..	E	S	SW	E	3	4	2	4	6	5	7
..	E	NW	..	SE	E	NE	..	E	7	10	10	10	6	10	8
..	E	N	S	..	E	SW	..	E	5	4	5	4	10	7	9
..	..	N	..	..	N	..	..	NE	8	8	9	10	10	10	10
..	..	NW	SE	..	W	SW	..	N	9	7	7	6	8	8	11
SE	..	..	S	..	..	SE	..	..	4	3	4	7	8	4	12
..	..	SE	..	SE	N	..	NE	N	5	9	8	7	10	10	3
S	..	SE	..	..	E	N	S	W	8	5	7	8	5	10	14
NE	..	..	W	..	..	S	..	..	6	2	1	1	2	10	15
SE	..	E	..	SE	S	..	..	E	10	6	7	6	7	10	16
SE	..	SW	..	SW	E	..	..	E	8	3	3	4	4	10	17
..	..	NE	SW	E	E	S	E	NE	10	9	4	4	6	10	18
E	SE	..	S	SE	E	SW	..	E	9	6	7	6	3	10	19
E	SE	N	..	NW	SE	..	..	SE	10	6	4	6	10	10	20
..	NE	E	E	..	NE	..	E	S	8	7	4	6	9	10	21
..	NE	S	..	..	NW	..	..	SW	6	5	3	7	6	7	22
..	..	S	..	SW	E	..	..	SW	10	10	10	9	7	1	23
SE	..	S	..	..	SW	SE	..	E	4	3	4	5	4	1	24
..	..	E	S	SW	W	W	E	NE	10	10	7	7	8	10	25
SE	..	W	NW	..	E	W	SW	E	5	3	2	2	4	10	26
..	..	SE	..	S	SE	..	W	E	10	10	10	10	10	6	27
SE	..	E	..	..	NE	E	E	NE	4	7	4	5	4	10	28
..	SW	S	..	SW	W	..	NW	E	10	9	8	8	6	2	29
E	..	..	E	..	..	E	..	..	2	1	1	2	1	2	30
E	..	..	SE	..	..	S	..	..	2	1	1	2	1	1	31
									6·5	5·7	5·2	5·4	6·5	6·7	Mean cloud amount.

DECEMBER.

..	..	SE	..	..	N	..	..	NE	3	5	8	3	7	10	1
S	..	..	E	..	..	E	..	..	4	5	2	4	6	0	2
..	..	..	..	..	..	SE	SE	..	0	0	0	0	3	2	3
SE	..	..	SE	..	..	..	..	..	2	1	1	1	0	0	4
..	..	..	E	..	..	..	..	..	0	0	trace	1	0	0	5
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	6
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	7
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	8
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	9
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	10
..	..	..	SE	..	..	SE	..	..	0	0	0	trace	1	1	11
NW	..	..	..	..	..	..	..	..	3	trace	0	0	0	0	12
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	13
..	..	..	W	..	..	W	..	..	0	0	0	1	2	0	14
..	..	..	..	..	..	NW	..	..	0	0	0	0	1	2	15
..	..	..	..	..	..	..	..	..	trace	0	0	0	0	0	16
SW	..	..	..	..	..	..	..	..	trace	trace	trace	0	0	0	17
SW	..	..	..	..	..	W	..	..	3	1	0	0	3	0	18
N	..	..	..	..	E	..	..	..	2	4	2	trace	0	0	19
..	..	..	W	..	..	W	..	..	2	trace	0	2	1	0	20
..	..	..	..	..	N	..	..	..	0	0	0	0	0	0	21
..	..	W	..	..	..	..	..	..	0	1	0	0	0	0	22
..	..	..	W	..	..	..	..	..	0	0	0	0	0	0	23
E	..	W	..	..	SW	..	..	..	2	2	4	5	0	0	24
..	..	W	..	..	..	..	..	..	0	1	trace	0	0	0	25
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	26
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	27
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	28
..	..	..	..	..	..	..	..	..	0	0	0	0	0	0	29
SW	..	..	W	..	..	SW	..	..	0	1	2	trace	5	0	30
NW	..	..	..	..	..	..	..	..	0	2	0	0	0	0	31
									0·7	0·7	0·6	0·5	0·9	0·5	Mean cloud amount.

Month.	Hours (B.M.T.).													Bright Sunshine.	
	6—7	7—8	8—9	9—10	10—11	11—12	12—13	13—14	14—15	15—16	16—17	17—18	18—19	Average per day.	Greatest number of hours in a day.
	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hr.	hrs.	hrs.
January	0·20	0·99	0·99	0·98	1·00	1·00	1·00	1·00	1·00	0·99	0·99	0·25	..	10·4	10·6
February	0·08	0·84	1·00	1·00	1·00	1·00	1·00	1·00	1·00	1·00	0·98	0·43	..	10·3	10·7
March	0·03	0·89	0·99	0·98	0·99	1·00	1·00	1·00	1·00	1·00	1·00	0·26	..	10·1	10·6
April	0·18	0·82	0·90	0·95	0·98	0·99	0·99	0·97	0·98	0·96	0·83	0·23	..	9·8	11·3
May	0·31	0·80	0·88	0·95	0·99	0·97	1·00	1·00	0·99	0·94	0·87	0·40	..	10·1	11·5
June	0·12	0·52	0·58	0·62	0·73	0·76	0·67	0·73	0·72	0·74	0·58	0·10	..	6·9	10·8
July	0·04	0·09	0·15	0·20	0·12	0·10	0·18	0·15	0·19	0 12	0·04	0·01	..	1·4	10·1
August	0·02	0·25	0·36	0·41	0·50	0·61	0·55	0·53	0·41	0·41	0·21	0·02	..	4·3	10·5
September	0·02	0·36	0·60	0·59	0·57	0·54	0·55	0·50	0·52	0·49	0·31	0·03	..	5·1	10·3
October	0·08	0·39	0·64	0·70	0·77	0·74	0·77	0·82	0·82	0 67	0·54	0·11	..	7·0	10·8
November	0·27	0·85	0·93	0·95	0·96	0 96	0·97	0·98	0·94	0·90	0·78	0·11	..	9·6	10·9
December	0·15	0·98	1·00	0·99	0·97	0·97	0·98	0·99	1·00	0 99	0·97	0·02	..	10·0	10·5
Mean	**0·13**	0·65	0·75	0·78	0·80	0·80	**0·81**	0·81	0·80	0·77	0·68	0·16	..	7·9	..

* From Campbell-Stokes Sunshine Recorder.

MAGNETIC TABLES.

(ALIBAG OBSERVATORY.)

Diurnal variation of magnetic elements.

The following tables give the diurnal variation of declination (D), horizontal component of the force (H), the easterly component (Y), the vertical component (Z), the inclination (I) and the total force (F) for each month based on the hourly tabulations for the 5 international quiet days. Owing to very small value of D the variation tables of H and the northerly component of the force (X) are practically the same. No separate table for $\triangle$ X has consequently been given. The days are reckoned from 4 h. 51 m. to 3 h. 51 m. of the local mean time corresponding to the Greenwich civil day 0 h. to 23 h.

The variations in X, Y, I and F were computed from the variations in D, H and Z by means of the formulæ:

$$\begin{aligned}
\triangle X &= 1{\cdot}000\ \triangle H + 0{\cdot}040\ \triangle D.\\
\triangle Y &= -0{\cdot}004\ \triangle H + 10{\cdot}871\ \triangle D.\\
\triangle I &= 0{\cdot}075\ \triangle Z - 0{\cdot}036\ \triangle H.\\
\triangle F &= 0{\cdot}903\ \triangle H + 0{\cdot}431\ \triangle Z.
\end{aligned}$$

A *plus* sign indicates an hourly value greater than the mean for the day.

Mean results are also given for groups of four months, as indicated by the Roman numerals at the head of the columns:—I January, February, November, December; II March, April, September, October; III May, June, July, August.

All diurnal inequalities have been corrected for the aperiodic change by the formula $\frac{N(12-n)}{24}$ where 'N' denotes the excess at the second midnight of the representative day as compared to the first midnight, and 'n' denotes any hour of the day reckoned from 0 (first midnight) to 24. The actual non-cyclic corrections applied, namely, $(a_{24} - a_0)$ in the different months of the year have been given under the respective columns of the tables for $\triangle$D, $\triangle$H and $\triangle$Z.

The "allowance for the use of the Means", which is given by $u_p = m_p + \frac{1}{12}\left(m_p - \frac{m_{p+1} + m_{p-1}}{2}\right)$, where u_p is the true ordinate and m_{p-1}, m_p, m_{p+1} the successive mean ordinates, is very small and less than 1γ in the case of H and V and 0·1 minute of arc in the case of D. Although small, the corrections have been used in determining the last significant figure in the following variation tables.

DIURNAL VARIATION OF D, 1932.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

Hour.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Group means.			Year.
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
0	−0·4	−0·4	−0·1	+0·3	+0·3	+0·6	+0·5	+0·8	+0·6	−0·1	−0·4	−0·4	−0·4	+0·2	+0·6	+0·1
1	**−0·7**	**−0·5**	−0·3	+0·6	+0·9	+1·6	+1·2	+1·5	+1·2	−0·1	−0·4	−0·5	−0·5	+0·4	+1·3	+0·4
2	−0·7	−0·5	−0·1	+1·4	+1·8	**+2·3**	+1·8	+2·4	+2·0	+0·4	−0·5	−0·8	**−0·7**	+0·9	+2·1	+0·8
3	−0·5	0·0	+0·3	**+1·7**	**+2·0**	+2·3	**+2·0**	**+2·6**	**+2·1**	**+1·0**	−0·1	**−0·9**	−0·4	**+1·3**	**+2·2**	**+1·0**
4	+0·3	+0·7	**+0·6**	+1·6	+1·2	+1·7	+1·4	+1·7	+0·9	+0·7	+0·1	−0·4	+0·1	+1·0	+1·5	+0·9
5	**+0·9**	**+1·2**	+0·6	+0·8	+0·3	+0·3	+0·3	+0·1	−0·5	+0·2	0·0	−0·1	**+0·5**	+0·3	+0·2	+0·3
6	+0·8	+0·7	−0·1	−0·8	−0·6	−1·0	−0·9	−1·3	−1·9	−0·6	−0·3	+0·3	+0·4	−0·8	−1·0	−0·5
7	0·0	−0·2	−0·6	−1·9	−1·2	−1·5	−1·7	−2·5	**−2·7**	**−1·3**	**−0·6**	+0·4	−0·1	−1·6	−1·7	−1·1
8	−0·2	−0·4	**−0·8**	**−2·1**	**−1·5**	**−1·9**	**−2·1**	**−2·6**	−2·7	−1·2	−0·1	+0·4	−0·1	**−1·7**	**−2·1**	**−1·3**
9	+0·1	−0·4	−0·5	−1·8	−1·5	−1·7	−1·9	−1·9	−1·8	−0·5	+0·1	**−0·6**	+0·1	−1·2	−1·8	−0·9
10	−0·2	−0·4	+0·2	−1·3	−1·0	−1·2	−1·3	−1·3	−0·5	+0·1	0·0	+0·3	−0·1	−0·3	−1·2	−0·5
11	−0·3	−0·1	+0·4	−0·5	−0·4	−0·8	−0·5	−0·5	+0·4	+0·3	+0·2	0·0	−0·1	+0·1	−0·5	−0·2
12	−0·3	+0·2	+0·2	+0·1	−0·1	−0·4	−0·1	+0·1	+0·6	+0·2	+0·2	+0·2	+0·1	+0·3	−0·1	+0·1
13	−0·1	+0·2	0·0	+0·1	−0·1	−0·2	+0·1	+0·2	+0·3	0·0	+0·1	+0·3	+0·1	+0·1	0·0	+0·1
14	+0·1	+0·1	−0·1	−0·1	−0·1	−0·4	−0·1	−0·3	0·0	0·0	+0·1	+0·2	+0·1	−0·1	−0·2	0·0
15	+0·2	0·0	0·0	−0·2	−0·3	−0·5	−0·3	−0·3	0·0	0·0	+0·2	+0·2	+0·1	−0·1	−0·3	−0·1
16	+0·1	0·0	0·0	−0·2	−0·3	−0·4	−0·3	−0·2	0·0	0·0	+0·3	+0·2	+0·1	−0·1	−0·3	−0·1
17	+0·2	0·0	0·0	0·0	−0·1	−0·2	+0·1	−0·2	0·0	+0·1	+0·3	+0·1	+0·1	0·0	−0·1	0·0
18	+0·2	+0·1	+0·1	+0·2	0·0	+0·1	+0·1	0·0	0·0	+0·1	**+0·4**	+0·1	+0·2	+0·1	0·0	+0·1
19	+0·2	+0·1	+0·1	+0·3	0·0	+0·2	+0·2	+0·2	+0·2	+0·2	+0·3	+0·1	+0·2	+0·2	+0·1	+0·2
20	+0·2	+0·1	+0·1	+0·5	+0·1	+0·2	+0·3	+0·3	+0·3	+0·2	+0·3	+0·1	+0·2	+0·3	+0·2	+0·2
21	+0·2	0·0	+0·1	+0·5	+0·2	+0·4	+0·3	+0·3	+0·4	+0·2	+0·1	+0·1	+0·1	+0·3	+0·3	+0·2
22	+0·1	+0·1	0·0	+0·5	+0·2	+0·4	+0·5	+0·5	+0·5	+0·1	−0·1	−0·3	−0·1	+0·3	+0·4	+0·2
23	−0·1	−0·3	−0·1	+0·3	+0·1	+0·5	+0·4	+0·5	+0·5	0·0	−0·3	−0·3	−0·2	+0·2	+0·4	+0·1
Non-cyclic change (24h—0h)	−0·05	−0·35	+0·10	−0·29	+0·04	−0·07	−0·02	−0·04	−0·29	+0·05	−0·17	+0·11				

DIURNAL VARIATION OF H, 1932.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	−5	−5	−9	−5	−7	−10	−10	−11	−5	−5	−6	−4	−5	−6	−9	−7
1	−3	−4	−7	−5	−6	−8	−9	−9	−5	−4	−5	−2	−3	−5	−8	−5
2	+1	−2	−3	−7	−2	0	−3	−5	−6	−3	+1	+1	0	−5	−3	−2
3	+4	0	+7	−3	+2	+7	+4	+3	−1	−1	+7	+6	+4	+1	+4	+3
4	+7	+4	+17	+3	+8	+15	+15	+12	+9	+5	+14	+8	+8	+9	+13	+10
5	+14	+11	+28	+14	+18	+23	+24	+20	+15	+15	+19	+11	+14	+18	+21	+18
6	**+19**	+18	**+33**	+21	**+24**	**+26**	**+29**	+26	**+19**	+23	**+23**	**+12**	**+18**	**+24**	**+26**	**+23**
7	+18	**+21**	+31	**+22**	+23	+22	+28	**+29**	+18	**+25**	+20	+11	+17	+24	+26	+23
8	+14	+19	+23	+19	+20	**+17**	+24	+26	+17	+18	**+12**	+8	+13	+19	+22	+18
9	+6	+14	+13	+10	+14	+15	+16	+18	+10	+9	+8	+4	+8	+10	+16	+11
10	+2	+8	**+3**	+5	+8	+9	+9	+11	+3	+1	+3	+2	+4	+3	+9	+5
11	+3	+4	−5	+2	+1	−1	−1	**+3**	0	−1	−1	−3	+1	−1	+1	0
12	−1	0	−8	−2	−4	−6	−8	−5	−3	−3	−5	**−6**	−3	−4	−6	−4
13	−3	−5	−9	−4	−9	−8	−11	−8	−5	−6	−7	−6	−5	−6	−9	−7
14	−6	−7	−11	−5	**−11**	−9	−11	−10	−6	−7	−9	−5	−7	−7	−10	−8
15	−7	−7	−12	−7	**−11**	−9	−11	−11	−7	−8	−10	−5	−7	−8	**−11**	**−9**
16	−9	−8	−12	−7	−9	−9	**−13**	**−12**	−8	**−10**	−10	−5	−8	−9	−11	−9
17	**−10**	**−10**	−13	−7	−10	−9	−12	−11	**−9**	−9	−10	−5	**−9**	−9	−11	−9
18	−9	−9	−12	−7	−9	−10	−11	−11	−8	−7	−10	−4	−8	−9	−10	−9
19	−8	−9	**−14**	**−9**	−7	−10	−10	−11	−8	−7	**−11**	−3	−7	−9	−9	−9
20	−7	−9	−11	−7	−9	**−11**	−10	−11	−6	−7	−10	−3	−7	−8	−10	−8
21	−9	−9	−11	−8	−9	−10	−9	−10	−6	−7	−7	−5	−7	−8	−9	−8
22	−8	−9	−9	−7	−9	−10	−10	−12	−6	−7	−6	−4	−7	−7	−10	−8
23	−6	−6	−9	−5	−9	−11	−10	−11	−6	−6	−6	−3	−5	−7	−10	−7
Non-cyclic change (24h—0h.)	+2·0	+7·7	+3·3	+4·7	+7·3	+3·8	+5·6	+4·5	+7·3	+6·8	+5·0	+0·3				

DIURNAL VARIATION OF Y, 1932.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
0	−4	−4	−1	+3	+3	+7	+6	+8	+7	−1	−4	−5	−4	+2	+6	+1
1	−7	−5	−3	+6	+10	**+17**	+13	+16	+13	−1	−5	−6	−6	+4	+14	+4
2	**−8**	−6	−1	+15	+19	**+25**	+20	+26	+22	+5	−5	**−9**	−7	+10	+22	+8
3	−6	0	+4	**+19**	**+21**	+25	**+22**	**+28**	**+23**	**+11**	−1	−9	−4	**+14**	**+24**	**+11**
4	+3	+7	+7	+17	+13	+18	+15	+18	+10	+8	+1	−5	+2	+10	+16	+9
5	**+10**	**+13**	+7	+9	+3	+3	+3	+1	−5	+2	0	−1	**+5**	+3	+2	+4
6	+8	+8	−1	−9	−7	−11	−10	−14	−20	−7	−3	+3	+4	−9	−11	−5
7	0	−2	−7	−20	−13	−16	**−15**	−27	**−30**	**−14**	**−7**	+4	−1	−18	−19	−13
8	−2	−5	**−9**	**−23**	**−17**	**−21**	−23	**−29**	−30	−13	−1	+4	−1	**−19**	**−22**	**−14**
9	+1	−5	−5	−20	−17	−19	−21	−21	**−19**	−6	+1	+7	+1	−13	−19	−10
10	−3	−4	+2	−14	−11	−13	−14	−15	−5	+1	0	+3	−1	−4	−13	−6
11	−4	−1	+4	−6	−4	−9	−5	−5	+5	+3	+2	0	−1	+1	−6	−2
12	−3	+2	+2	+1	−1	−4	−1	+1	+7	+2	+2	+3	+1	+3	−1	+1
13	−1	+2	0	+2	+1	−2	+1	+2	+3	0	+1	+3	+1	+1	0	+1
14	+2	+1	−1	−1	−1	−4	−1	−3	0	0	+2	+3	+2	0	−3	0
15	+2	0	0	−2	−3	−5	−3	−3	0	0	+3	+2	+2	−1	−4	−1
16	+2	0	0	−2	−3	−5	−3	−2	0	0	+3	+2	+2	0	−3	−1
17	+2	0	0	0	−1	−2	+1	−2	0	+1	+3	+2	+2	0	−1	0
18	+2	+1	+1	+3	0	+1	+1	0	0	+1	**+4**	+1	+2	+1	0	+1
19	+2	+1	+2	+4	0	+2	+2	+2	+2	+2	+4	+1	+2	+2	+2	+2
20	+2	+1	+2	+5	+1	+2	+3	+3	+3	+2	+4	+1	+2	+3	+2	+2
21	+2	0	+1	+5	+3	+4	+4	+4	+5	+2	+2	+1	+1	+3	+3	+3
22	+1	−1	0	+5	+2	+4	+5	+6	+6	+2	−1	−3	−1	+3	+4	+2
23	−1	−3	−2	+4	+2	+5	+5	+6	+6	0	−3	−4	−3	+2	+4	+1

DIURNAL VARIATION OF Z, 1932.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

Hour.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Group means.			Year.
	I	I	II	II	III	III	III	III	II	II	I	I	I	II	III	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	−1	−2	−2	+5	+5	+9	+7	+4	+7	+5	−3	−3	−2	+4	+6	+3
1	−1	−2	−3	+9	**+10**	**+14**	**+11**	+10	**+11**	+6	−3	−3	−3	+6	**+11**	**+5**
2	−1	0	−1	+9	+10	+13	+11	**+11**	+11	**+9**	−2	−4	−2	+7	+11	+5
3	+1	+5	−1	+1	+3	+5	+7	+2	+1	+4	+1	0	+2	+1	+4	+3
4	**+4**	**+9**	−2	−14	−13	−7	−3	−13	−15	−5	0	+4	**+4**	−9	−9	−5
5	+3	+5	−5	−24	−14	−18	−8	−21	−22	−13	−4	**+6**	+3	−16	−15	−9
6	−3	−4	**−9**	**−31**	**−18**	**−21**	−12	**−24**	**−23**	**−19**	**−8**	+6	−2	**−20**	**−19**	−14
7	**−9**	**−9**	−6	−26	−17	−21	**−14**	−20	−19	−16	−5	0	**−6**	−17	−18	−14
8	−7	−7	0	−16	−15	−19	−8	−9	−10	−9	0	−1	−3	−8	−13	−8
9	−8	−4	+5	−3	−5	−7	−3	0	+2	−1	−2	−1	−4	+1	−4	−2
10	−7	−1	**+7**	+3	0	−2	+5	+4	+7	+5	−1	**−6**	−4	+6	+2	+1
11	−2	+2	+4	+7	+3	+2	+8	+10	+7	+3	**+3**	−4	0	+5	+6	+4
12	+2	+3	0	+8	+4	+5	+6	+9	+4	0	+2	+1	+2	+3	+6	+3
13	+3	+1	0	+5	+2	+4	+2	+2	−1	+1	+2	+1	+2	+1	+3	+2
14	+4	0	+1	+5	+1	+2	−2	−1	0	+2	+3	+1	+2	+2	0	+1
15	+4	0	+2	+6	+3	+3	−2	+1	+1	+2	+3	+1	+2	+3	+1	+2
16	+4	+1	+2	+7	+4	+3	−1	+3	+3	+2	+1	+2	+2	+4	+2	+3
17	+3	+1	+3	+8	+5	+5	−1	+4	+3	+3	+3	0	+2	+4	+3	+3
18	+3	+1	+3	+9	+6	+5	0	+5	+5	+4	+2	+1	+2	+5	+4	+4
19	+3	+1	+3	+8	+6	+5	0	+5	+5	+4	+2	0	+1	+5	+4	+3
20	+3	+1	+1	+7	+5	+5	0	+5	+6	+3	+1	0	+1	+5	+4	+3
21	+2	+1	+1	+6	+6	+5	0	+5	+6	+3	+1	−1	+1	+4	+4	+3
22	+1	0	0	+5	+5	+5	0	+5	+6	+3	0	−1	0	+3	+4	+2
23	+1	−1	−1	+5	+4	+5	−1	+5	+6	+3	+1	−1	0	+3	+3	+2
Non-cyclic change (24h−0h.)	−0·2	+0·9	+9·6	+6·3	−5·4	−2·6	−4·0	−6·0	−2·0	−9·1	+0·2	−6·8				

DIURNAL VARIATION OF I, 1932.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
0	+0·1	0·0	+0·1	+0·6	+0·6	+1·1	+0·9	+0·7	+0·7	+0·6	0·0	−0·1	0 0	+0·5	+0·8	+0·4
1	0·0	−0·1	0·0	+0·8	**+0·9**	**+1·3**	**+1·1**	**+1·1**	**+1·0**	+0·5	0·0	−0·1	−0·1	+0·6	**+1·1**	+0·5
2	−0·1	+0·1	0·0	**+1·0**	+0·8	+0·9	+0·9	+1·0	+1·0	**+0·8**	−0·1	−0·4	−0·1	**+0·7**	+0 9	+0·5
3	−0·1	+0·4	−0·3	+0·2	+0·1	+0·2	+0·3	0·0	0·0	+0·3	−0 2	−0·2	0·0	+0·1	+0·1	+0·1
4	0·0	**+0·5**	−0·8	−1·1	−1·3	−1·0	−0·8	−1·4	−1·4	−0·6	−0·5	0·0	0·0	−1·0	−1·1	−0·7
5	−0·3	0·0	−1·4	−2·3	−1·8	−2·1	−1·5	−2·3	−2·2	−1 4	−1·0	0·0	−0 3	−1·8	−1·9	−1·4
6	−1·0	−0·9	−1·9	**−3·0**	**−2·2**	**−2·5**	−1·9	**−2·7**	**−2·4**	**−2·2**	**−1·4**	0·0	−0·8	**−2·4**	**−2·3**	**−1·8**
7	**−1·3**	**−1·5**	−1·6	−2·8	−2·0	−2·4	**−2·1**	−2·6	−2·1	−2·1	−1·1	−0·4	**−1·1**	−2·1	−2·3	−1·8
8	−1·0	−1·2	−0·8	−1·9	−1·8	−2·0	−1·6	−1·6	−1·3	−1 4	−0·4	−0·4	−0·7	−1·3	−1·7	−1·3
9	−0·8	−0·8	−0·1	−0·5	−0·9	−1·0	−0·8	−0·6	−0·2	−0 3	−0·4	−0·2	−0·5	−0·3	−0·8	−0·5
10	−0·7	−0·4	+0·4	+0·1	−0·3	−0·4	+0·1	−0·1	+0·5	+0·3	−0·1	**−0·5**	−0·4	+0·3	−0·2	−0·1
11	−0·3	+0·1	+0·5	+0·4	+0·3	+0·1	+0·7	+0·6	+0·5	+0·3	+0·2	−0·2	−0·1	+0·4	+0·4	+0·3
12	+0·1	+0·2	+0·3	+0·7	+0·4	+0·6	+0·7	+0·9	+0·4	+0·1	+0·4	**+0·3**	+0·3	+0·4	+0·7	+0·4
13	+0·3	+0·3	+0·3	+0·5	+0·4	+0·6	+0·6	+0·5	+0·2	+0·3	+0·4	+0·3	+0·3	+0·3	+0·5	+0·4
14	+0·5	+0·2	+0·5	+0·5	+0·5	+0·4	+0·3	+0·2	+0·2	+0·4	+0·5	+0 3	**+0·4**	+0·4	+0·3	+0·4
15	+0·5	+0·3	+0·5	+0·6	+0·6	+0·5	+0·3	+0·5	+0·4	+0·5	**+0·6**	+0·3	+0·4	+0·5	+0·5	+0·5
16	**+0·6**	+0·3	+0·6	+0·8	+0·6	+0·6	+0·4	+0·6	+0·5	+0·6	+0·6	+0·2	+0·4	+0·6	+0·5	+0·5
17	**+0·5**	+0·4	**+0·7**	+0·9	+0·8	+0·7	+0·3	+0·7	+0·5	+0·6	+0·5	+0·2	+0·4	**+0·2**	+0·6	**+0·6**
18	+0·5	+0·4	+0·6	+1·0	**+0 7**	+0·8	+0·4	+0·8	+0·6	+0·8	+0·6	+0·1	+0·4	**+0·7**	+0·7	+0·6
19	+0·5	+0·4	+0·7	+0·9	+0·7	+0·8	+0·4	+0·8	+0·7	+0·6	+0·5	+0·1	+0·4	+0·7	+0·7	+0·6
20	+0·5	+0·4	+0·5	+0·9	+0·7	+0·8	+0·3	+0·7	+0·6	+0·4	+0·4	+0·1	+0·3	+0·6	+0·6	+0·5
21	+0·4	+0·4	+0·5	+0·8	+0·7	+0·8	+0·3	+0·8	+0·6	+0·4	+0·3	+0·2	+0·3	+0·6	+0·7	+0·5
22	+0·4	+0·3	+0·3	+0·6	+0·7	+0·8	+0·4	+0·8	+0·6	+0·4	+0·2	0·0	+0·2	+0·5	+0·7	+0·5
23	+0·3	+0·2	+0·2	+0·5	+0·6	+0·7	+0·4	+0·8	+0·7	+0·4	+0·3	+0·1	+0·2	+0·5	+0·6	+0·4

DIURNAL VARIATION OF F, 1932.

[INTERNATIONAL QUIET DAYS, GREENWICH MEAN TIME.]

	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
0	−5	−6	−9	−3	−4	−5	−6	−8	−1	−2	−6	−5	−5	−4	−6	−5
1	−3	−4	−7	0	−1	−1	−4	−4	0	−1	−5	−3	−4	−2	−3	−3
2	0	−2	−4	−3	+2	+5	+2	0	0	+2	0	0	−1	−1	+2	0
3	+4	+2	+6	−2	+3	+8	+7	+4	−1	+1	+7	+5	+5	−1	+5	+3
4	+5	+8	+15	−3	+2	+11	+13	+5	+2	+3	+13	+9	+9	+4	+7	+7
5	+14	+12	+23	+2	+10	+13	+18	+9	+4	+8	+16	+12	+14	+9	+13	+12
6	**+16**	+15	**+26**	+6	**+14**	**+14**	**+21**	+13	+7	+13	**+17**	**+13**	**+15**	+13	**+15**	**+15**
7	+13	+15	+25	+9	+14	+11	+19	+18	+8	**+16**	+16	+10	+13	**+15**	+15	+15
8	+9	**+14**	+21	**+10**	+12	+7	+18	**+19**	**+11**	+13	+11	+7	+10	+14	+14	+13
9	+2	+11	+13	+7	+11	+10	+13	+16	+10	+8	+6	+3	+5	+10	+13	+9
10	−1	+6	+5	+6	+7	+7	+10	+12	+6	+3	+2	−1	+2	+5	+9	+5
11	+1	+5	−3	+5	+3	0	+2	+6	+3	0	+1	−4	+1	+1	+3	+2
12	0	+2	−7	+2	−2	−3	−5	−1	−1	−3	−3	−5	−1	−2	−3	−2
13	−2	−4	−9	−1	−7	−6	−9	−7	−5	−5	−5	−5	−4	−5	−7	−5
14	−4	−6	−9	−3	**−9**	−7	−11	−9	−5	−6	−6	−4	−5	−6	**−9**	**−7**
15	−4	−7	**−10**	−4	−9	−7	−11	**−10**	**−6**	−6	−8	−4	−6	−6	−9	−7
16	−6	−7	−10	−3	−7	−7	**−12**	−9	−6	**−8**	−8	−4	−6	−7	−9	−7
17	**−7**	**−9**	−10	−3	−7	−6	−11	−8	−6	−7	−8	−5	**−7**	−7	−8	−7
18	−7	−8	−10	−3	−5	−7	−10	−8	−5	−5	−8	−3	−6	−6	−7	−7
19	−6	−7	**−11**	**−5**	−4	−7	−9	−7	−5	−5	**−9**	−3	−6	−7	−7	−7
20	−5	−7	−9	−4	−6	**−8**	−9	−8	−3	−5	−8	−3	−6	−5	−8	−6
21	−7	−8	−9	−4	−6	−7	−8	−7	−3	−5	−6	−5	−6	−5	−7	−6
22	−7	−8	−8	−4	−6	−7	−9	−9	−3	−5	−5	−4	−6	−5	−8	−6
23	−5	−6	−9	−3	−6	−8	−9	−7	−3	−4	−5	−3	−5	−5	−8	−6

DECLINATION (WESTERLY), 1932.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

JANUARY. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	12·0	12·0	11·9	11·7	11·5	12·1	12·7	12·9	12·7	12·5	12·3	11·7	11·2	11·5	11·3
2	12·7	12·8	12·9	12·2	11·4	11·2	12·0	13·3	12·2	11·4	11·2	11·1	10·9	11·3	11;3
3	12·4	11·9	12·1	12·3	12·1	12·5	13·2	13·4	12·8	12·4	11·9	11·5	11·5	11·5	11·4
4	12·5	12·1	12·3	11·9	11·3	10·9	11·2	11·4	11·8	12·1	12·3	12·1	11·6	11·6	11·4
5	12·3	12·5	12·5	12·3	12·1	12·1	12·1	11·8	11·6	11·7	12·1	11·7	11·7	11·6	11·5
6	12·2	12·7	13·1	12·9	12·1	11·4	11·1	11·5	11·8	11·6	11·6	11·7	11·6	11·4	11·2
7	12·3	12·3	12·3	11·4	10·8	10·8	11·5	12·1	11·6	11·7	11·6	11·8	11·9	11·8	11·6
8	12·5	12·5	12·9	12·5	11·5	11·5	11·8	11·9	12·7	12·5	11·4	11·0	11·1	11·5	11·5
9	11·8	11·8	11·9	12·5	12·7	12·5	12·9	13·6	13·2	12·5	11·8	10·6	10·5	11·3	11·5
10	12·6	12·1	12·1	11·8	11·1	11·1	11·8	12·3	11·9	11·5	10·8	9·7	10·7	10·8	11·5
11	11·8	11·9	12·1	12·2	12·3	12·5	12·3	11·7	12·5	11·7	11·6	10·8	10·9	11·4	11·4
12	12·1	11·8	11·7	12·1	12·0	11·6	12·3	13·1	13·1	12·5	11·4	10·5	10·5	10·0	10·8
13	11·7	11·9	12·4	12·2	12·3	11·7	11·6	12·1	12·9	12·5	12·2	11·4	11·5	11·3	11·4
14	12·1	12·4	12·1	11·5	10·0	9·4	10·6	10·9	12·5	12·2	11·3	11·0	11·2	11·1	10·7
15	12·1	12·1	12·3	12·2	12·0	12·2	12·5	12·7	12·4	12·2	12·2	11·4	10·7	10·9	11·1
16	12·2	12·4	12·5	11·9	11·2	11·1	11·8	12 8	12·7	12·5	11·9	11·3	11·3	11·2	11·2
17	11·9	12·2	12·2	12·7	12·5	11·6	10·8	10·9	11·6	11·5	11·2	11·5	11·5	11·4	11·6
18†	12·0	12·2	12·4	12·1	11·4	11·2	11·3	11·9	11·7	11·7	11·7	11·7	11·7	11·7	11·7
19†	12·0	12·3	12·4	12·2	11·8	11·7	11·7	12·3	12·7	12·3	12·6	12·7	12·7	12·2	11·8
20†	12·3	12·7	12·7	12·5	11·2	10·1	10·2	11·6	12 2	11·7	11·7	11·7	11·8	12·0	11·8
21†	12·4	12·6	12·8	12·9	12·5	11·9	11·6	11·9	12·6	11·9	12·3	12·4	12·3	11·9	11·9
22†	12 7	12·3	12·8	12·3	11·3	10·3	10·9	11·5	11·1	11·3	12·3	12·8	12·6	12·2	11·7
23	12·4	12·9	13·3	13·1	12·4	12 0	12·7	13·4	13·4	12·7	12·2	12·3	11·9	12·1	12·2
24	12·8	13·0	13·2	12·8	11·7	11·1	11·8	12·0	12·6	12 0	11·6	11·8	11·8	12·1	12·2
25	13·5	13·9	13·9	13·9	13·0	11·6	11·8	12·3	11·8	11·4	11·6	10·9	11·1	11·6	11·8
26	12·8	13·4	13·3	13·0	11·8	11·3	12·8	13·0	12·3	10·9	10·2	10·9	11 7	12·2	12·1
27	12·1	13·2	13·4	12·9	11·6	10·9	11·8	12·7	12·6	11·8	11·1	10·7	10·7	11·3	11·2
28	13·6	14·2	13·9	13·2	11·5	10·9	11·8	12·9	12·5	11·9	11.0	11·0	10·7	9·1	11·3
29	12·5	12·6	12·9	12·8	12·2	12·3	12·9	12·6	11·7	11·5	11·3	11·1	11·3	11·5	11·0
30	12·3	12·6	12·8	12·4	11·8	12·5	13·3	12·9	12·1	11·5	11·7	11·4	11·3	11·5	11·9
31	12·5	12·9	13·2	12·5	12·1	12·0	12·0	11·6	11·1	11·9	12·0	11·6	11·7	11·8	12·0
Mean . .	12·4	12·5	12·7	12·4	11·8	11·5	11·9	12·3	12·3	11·9	11·7	11·4	11·4	11·5	11·5
Mean† . .	12·3	12·6	12·7	12·5	11·7	11·0	11·1	11·9	12·1	11·8	12·1	12·3	12·2	12·0	11·8

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1	12·6	12·7	12·9	12·5	11·4	11·1	12·2	13·0	12·7	11·7	11·5	11·6	11·5	11·8	11·9
2†	12·5	12·9	12·9	12·4	11·3	10·7	11·8	12·4	11·9	11·7	11·3	11·2	11·3	11·4	11·8
3	13·4	13·6	13·7	12·8	11·8	10·9	11·4	12·7	13·3	12·9	12·9	13·0	12·7	11·9	11·7
4	12·2	12·7	13·0	12·8	11·7	12·1	12·6	12·4	11·4	11·0	11·2	10·1	11·1	11·7	11·3
5	12·1	12·3	12·6	12·3	11·6	11·5	11·0	10·9	11·0	11·5	12·1	12·5	12·3	12·2	11·8
6	12·0	12·0	12·1	11·7	11·1	10·8	11·3	12·0	12·0	12·0	12·1	11·7	11·4	11·8	11·7
7	12·0	12·2	12·2	11·9	11·5	10·9	11·5	12·1	12·1	11·5	11·5	12·0	12·4	12·4	12·2
8	12·2	12·2	12·6	11·9	10·8	10·5	11·1	12·0	12·1	12·1	12·0	11·8	11·5	11·8	11·7
9	12·1	12·5	12·3	11·9	11·1	11·3	12·2	13·1	12·7	12·0	11·6	11·4	11·1	12·6	11·7
10	12·3	12·4	12·5	12·7	12·3	11·9	12·2	13·1	13·2	12·7	12·1	11·1	11·1	11·3	11·8
11	12·2	12·2	12·2	11·7	11·5	11·3	11·7	12·5	12·7	12·3	11·7	11·4	11·5	11·8	11·9
12	12·4	11·9	12·0	12·1	12·2	12·3	12·6	12·9	13·2	13·9	13·3	12·7	12·1	11·9	11·8
13	12·4	12·7	13·1	12·7	12·3	12·0	12·2	12·2	12·4	12·5	12·2	11·7	11·5	11·7	11·5
14	12·3	12·2	12·2	11·5	10·7	10·5	11·0	11·5	12·2	12·4	13·2	13·0	12·3	12·1	12·1
15	12·6	12·8	12·7	12·5	12·1	11·2	11·1	11·5	12·0	12·1	11·6	11·3	11·3	11·7	11·6
16†	12·2	12·2	12·3	12·1	11·6	11·2	11·4	12·5	13·2	13·3	13·2	13·0	12·3	12·1	12·1
17†	12·4	12·5	12·7	12·3	11·4	11·0	11·1	11·5	11·6	11·9	12·1	12·1	12·1	12·1	12·1
18	13·0	13·1	13·1	12·5	11·9	11·4	11·7	12·3	12·6	12 9	12·7	12·4	12·3	12·3	12·3
19	12·5	13.1	12·6	12·3	11·6	11·3	11·6	12.5	13·0	13·1	12·6	12·5	12·5	12·7	12·5
20	13·0	13·0	13·3	13·3	12·5	12·5	13·1	13·3	12·8	12·0	12·0	11·6	12·1	12·3	12·1
21	12·3	12·4	12·5	12·4	12·3	12·3	12·1	12·4	12·7	12·4	11·5	11·1	11·6	12·0	11·1
22	12·3	12·5	12·4	11·8	11·5	11·6	12·3	13·0	12·5	11·2	11·4	11·2	11·5	11·7	11·0
23	12·3	12·2	12·3	12·2	11·7	11·7	12·2	12·3	12·4	12·5	12·5	12·4	12·4	12·5	12·3
24	12·7	13·1	13·3	12·9	11·8	11·5	11·5	12 2	11·9	11·8	11·7	11·3	11·7	11·7	11·5
25	12·6	12·6	12·6	12·2	11·7	11·0	11·4	11·7	12·1	11·8	11·7	11·5	11·8	12·0	11·9
26	12·3	12·3	12·3	12·0	11·3	11·5	12·4	13·3	13·3	13·3	13·0	12·3	11·8	11·5	11·9
27†	12·3	12·3	12·1	11·3	10·4	9·6	10·1	11·3	12·2	12·2	12·2	11·8	11·5	11·7	11·8
28†	12·3	12·3	12·3	11·9	12·0	11·9	12·2	13·1	13 3	13·3	13·3	12·9	12·4	12·3	12·3
29	12·5	12·5	12·5	11·7	10·8	10·5	11·4	12·3	12·3	12·2	12·3	12·0	12·2	12·3	12·3
Mean . .	12·4	12·5	12·6	12·2	11·6	11·3	11·7	12·3	12·4	12·3	12·2	11·9	11·8	11·9	11·9
Mean† . .	12·5	12·6	12·6	12·1	11·4	10·9	11·4	12·3	12·5	12·5	12·5	12·2	11·9	11·9	12·0

† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

JANUARY. 0° PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
10·7	11·7	11·8	11·5	11·3	11·9	12·4	12·3	12·5	11·9	14 44	10·2	7 10	13·1	1
10·8	10·7	11·2	11·1	11·6	11·5	11·9	11·8	12·5	11·7	15 00	10·4	6 40	13·5	2
11·5	11·6	11·6	11·9	11·9	11·9	11·9	11·9	11·9	12·1	13 40	11·1	6 30	13·7	3
11.5	11·6	11·6	11·7	11.7	12·1	12·3	12·3	12·3	11·8	4 44	10·8	10 30	12·6	4
11·4	11·5	11·6	11·6	11·6	11·6	11·7	11·6	11·8	11·9	14 50	11·3	1 30	12·7	5
11·6	11·6	11·6	11·5	11·5	11·6	11·6	11·7	12·1	11·8	5 46	11·1	2 30	13·4	6
11·7	11·7	11·8	11·8	11·7	11·6	12·0	12·2	12·4	11·8	4 30	10·6	1 30	12·6	7
11·6	11·4	11·1	10·6	10·8	11·2	11·2	11·1	11·4	11·6	18 09	10·4	2 30	13·0	8
11·4	11·3	11·5	11·6	11·3	11·5	11·5	11·4	11·8	11·9	11 50	9·8	7 31	13.6	9
11·3	11·1	11·2	11·6	11·6	11·5	11·6	11·6	11·8	11·5	10 42	9·6	6 29	12·7	10
11·3	11·4	11·6	11·1	10·9	11·1	11·4	11·1	11·5	11·6	11 18	10·6	3 10	12·7	11
10·8	10·9	11·3	11·6	11·6	11·5	11·6	11·7	11·6	11·6	11 42	10·1	7 00	13·4	12
11·2	11·2	11.4	11·6	11·6	11·5	11·6	11·7	12·2	11·8	16 06	10·9	7 50	13·3	13
10·8	11·1	11.4	11·5	11·5	11·6	11·6	11·6	12·3	11·4	4 46	9·3	23 14	12·9	14
11·1	11·1	11.1	11·1	11·6	11·5	11·6	11·7	11·9	11·7	12 14	10·7	6 44	12·9	15
11·2	11·1	10.9	10·7	11·2	11·3	11·7	11·7	11·8	11·6	17 30	10·7	7 00	13·0	16
11·6	11·6	11·6	11·5	11·6	11·7	11·7	11·7	11·9	11·7	6 30	10·7	3 10	12·9	17
11·7	11·7	11·7	11·7	11·6	11·7	11·7	11·7	11·8	11·7	4 50	11·1	2 30	12·7	18†
11·9	11·8	11·8	11·8	11·7	11·7	11·7	11·8	12·0	12·1	4 42	11·5	7 30	12·9	19†
11·7	11·7	11·7	11·7	11·8	11·8	11·7	11·8	12·2	11·8	5 30	9·8	0 50	12·8	20†
11·7	11·9	11·9	11·9	11·9	11·9	11·9	12·1	12·3	12·1	6 10	11·5	2 30	13·1	21†
11·7	11·9	11.7	11·7	11·8	11·7	11·7	12·0	12·1	11·9	4 54	10·1	10 54	13·0	22†
12·2	12·2	12·1	12·1	12·1	12·2	12·6	12·4	12·7	12·5	4 50	11·8	7 30	13.8	23
12·2	11·5	11·7	11·7	12·0	11·9	12·3	12·8	13·2	12·2	4 56	11·0	2 10	13·5	24
10·9	10·6	11·6	11·8	12·2	12·3	12·3	12·3	12·6	12·1	15 38	9·9	2 10	14·7	25
11·8	11·7	11·5	11·3	11·2	11·4	11·6	11·8	11·5	11·9	9 58	9·8	2 10	13·5	26
10·8	11·1	11·6	11·8	11·7	11·8	12·0	12·1	12·9	11·9	15 18	10·4	23 30	13·9	27
11 8	11·8	11·7	11·6	11·7	11·7	11·9	12·1	12·6	11·9	13 02	8·8	0 50	14·6	28
11·5	11·9	11·9	12·0	11·9	11·9	12·1	12.3	12·1	12·0	13 38	10·8	6 30	13·2	29
11·9	11·9	11·8	11·8	11·9	11·9	11·8	11·9	12·1	12·0	11 33	11·2	5 50	13·6	30
11·9	11·0	11·6	12·0	12·0	12·1	12·1	12·3	12·6	12·0	15 52	10·5	2 30	13·5	31
11·5	11·5	11·6	11·6	11·6	11·7	11·8	11·9	12·1	11·9					Mean.
11·8	11·8	11·7	11·7	11·7	11·7	11·7	11·8	12·0	11·9					Mean.†

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11·9	11·9	11·9	12·0	12·0	11·9	12·1	12·4	12·4	12·1	4 50	11·0	7 30	13·1	1
11·9	12·0	12·1	12·2	12·2	12·2	12·4	12·9	13·1	12.1	5 00	10·6	2 10	13·2	2†
11·8	12·0	11·9	11.4	11·3	11·5	11·9	11·7	12·3	12 2	5 30	10·7	1 58	13·9	3
11·7	11·2	11·9	11·1	11·9	11·0	11·9	11.7	11·7	11·7	11 02	10·0	2 40	13·4	4
11·7	11·2	11·2	11·0	11·4	11·3	11·3	11·6	11·8	11·7	7 04	10·7	11 50	12·9	5
11·8	11·7	11·8	11·6	11·5	11·5	11·8	11·8	11·9	11·7	5 02	10·6	7 40	12·5	6
12·1	12·1	12·0	12·0	12·0	11·9	11·5	11·3	11·5	11·8	5 08	10·8	12 39	12·7	7
11·5	11.8	12·1	11·7	11·7	12·0	11·9	12·0	12·1	11·8	4 50	10·1	7 34	12·7	8
11·8	11·8	11·5	11·2	11·1	11·3	11·3	11·6	12·2	11·8	11 50	11·0	7 30	13·3	9
11.6	10·7	11·8	12·1	12·5	12·2	12·1	12·1	12·2	12·1	15 50	10·3	7 30	13·3	10
11·7	11·8	12 1	11·6	11·7	11·8	12·2	12·2	12·2	11·9	4 10	11·2	8 02	13·1	11
11·6	11·9	11·8	11·5	11·9	12·2	12·0	12·0	12·5	12·3	17 50	11·4	9 10	14·3	12
11·5	11·8	12·1	11·8	11·4	11·5	11·6	11·9	12·2	12·1	14 26	11·3	2 10	13·3	13
11 7	11·9	12·1	12·1	11·7	12·0	12·2	12·2	12·2	12·0	5 02	10·5	10 30	13·3	14
11·9	11·9	12·1	12·1	11·7	11·8	11·8	11·7	12·2	11·9	5 58	11·0	1 50	13·1	15
12·2	12·2	12·1	12·0	12.0	11·9	12·0	12·2	12·3	12·2	5 00	11·2	9 30	13·4	16†
12·1	12·1	12·1	12·1	12·1	12·1	12·2	12·3	12·6	12·0	5 30	10·9	23 30	13·0	17†
12·3	12·3	12·4	12·5	12·4	12·4	12·4	12·5	12·5	12·4	4 50	11·3	8 50	13·1	18
12·3	12·3	12·3	12 1	12·1	12·2	12·3	12·5	12·6	12·4	4 50	11 3	8 56	13·3	19
11·7	11·2	11·6	11·5	12·3	12·2	12·2	12·3	12·3	12·3	16 00	11·1	2 34	13·7	20
11·9	12·0	12·0	12·0	12·0	12·2	12·2	12·3	12·3	12·1	10 30	10·9	7 56	13·0	21
11·6	11·5	12·2	12·2	11·7	11·9	12·0	12·1	12·3	11·9	9 18	10·5	7 10	13·2	22
12·4	12·3	12·3	12·1	11·5	12·2	11·9	12·3	12·4	12.2	19 26	11·3	9 30	12·7	23
11·8	12·1	12·1	12·1	12·2	12·1	12·3	12·3	12·5	12.1	11 04	11·0	2 30	13·4	24
11·4	11·3	11·3	11·5	11·7	11·8	11·9	12·1	12·3	11·8	4 50	10·8	1 10	12·9	25
12·0	12·0	11·9	12·0	12·1	12·2	12·2	12·2	12·2	12·2	4 40	11·3	8 44	13·5	26
11·9	12·1	12·1	11·8	11·9	12·0	12·1	12·1	12·2	11·7	5 00	9·4	23 48	12·4	27†
12·4	12·4	12·4	12·4	12·4	12·4	12·4	12·3	12·4	12.5	5 00	11·8	8 30	13·5	28†
12·4	12·3	12·3	12·4	12·3	12·3	12·3	12·4	12·5	12·1	4 50	10·5	7 30	12·5	
11·9	11·9	12.0	11·9	11·9	11·9	12·0	12·1	12·3	12·0					Mean.
12·1	12·1	12.1	12·C	12·0	12·0	12·1	12·2	12·3	12·1					Mean†

* The daily mean values of declination derived from 24 hourly values have been corrected for progressive change by 1/48th of the difference between the values of the initial and terminal hours.

†Five international quiet days.

DECLINATION (WESTERLY), 1932.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

MARCH. 0′ PLUS TABULAR QUANTITIES.

Date.	Hours. (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1†	12·8	12·9	13·3	13·1	13·1	13·0	13·1	12·6	12·5	12·2	11·7	11·8	12·3	12·5	12·5
2	12·5	12·7	13·3	12·5	11·7	11·9	12·7	13·5	13·7	13·1	12·2	11·9	11·7	12·2	12·5
3	11·5	11·6	12·0	11·8	11·6	11·9	12·6	13·0	13·3	12·5	10·8	11·0	11·1	10·7	11·4
4	12·5	12·4	12·3	11·7	11·3	11·5	12·0	12·5	12·5	12·3	12·3	11·7	11·5	11·9	12·2
5	11·6	11·5	11·9	11·3	11·4	12·1	12·7	13·3	12·7	12·6	11·5	11·5	11·7	12·2	12·3
6	12·3	12·3	12·3	11·4	11·0	10·7	10·8	11·3	11·8	11·5	11·3	11·7	11·5	11·4	11·8
7	12·3	12·3	12·3	11·9	11·7	11·8	12·0	12·5	13·1	12·3	11·5	11·4	11·9	12·1	12·3
8	12·8	12·1	11·9	11·3	11·1	10·9	11·1	11·8	11·9	12·0	11·8	11·4	11·6	12·3	12·3
9	12·2	12·3	11·8	11·3	11·2	11·3	12·0	12·7	13·0	13·1	12·5	12·3	12·2	12·2	12·4
10	12·1	11·8	12·1	11·9	11·7	12·0	12·3	12·7	12·3	12·1	11·7	11·0	11·1	12·0	12·1
11	11·9	11·9	12·1	11·9	12·1	12·3	12·5	12·9	13·1	12·8	11·9	11·5	11·5	11·8	12·0
12	12·3	12·5	12·8	12·3	11·6	11·2	11·2	11·9	12·3	12·3	12·2	12·0	12·0	12·0	11·9
13	12·6	12·6	12·7	12·3	12·1	11·4	11·2	11·3	11·6	11·6	11·2	11·3	11·9	12·1	12·3
14	11·9	11·9	11·7	11·2	10·6	10·4	11·3	12·5	12·7	12·5	11·6	11·4	11·8	12·2	12·2
15†	12·3	12·3	12·2	11·5	11·1	10·9	11·2	12·0	12·2	12·0	11·3	11·2	11·5	12·1	12·2
16†	12·2	12·1	11·6	10·9	10·3	10·3	11·6	12·9	13·2	12·7	11·9	11·3	11·5	12·0	12·2
17	12·1	11·8	11·8	11·4	11·5	11·9	12·4	13·2	13·1	12·9	12·2	11·8	11·9	12·0	12·2
18	11·3	12·2	11·9	11·5	11·1	11·2	11·5	12·0	12·3	12·3	12·2	12·2	12·1	12·1	12·1
19	12·4	12·2	11·7	11·0	10·5	10·8	11·7	13·3	13·6	13·1	12·3	11·9	11·8	12·1	12·2
20	12·3	12·3	12·0	11·3	11·1	11·6	12·1	13·1	13·5	13·2	12·1	11·3	11·2	11·6	11·9
21	12·4	12·2	11·7	11·7	12·1	12·6	13·4	13·9	14·3	13·9	13·1	12·4	11·6	11·9	12·3
22	12·7	12·3	11·4	11·2	12·4	12·6	13·6	14·2	13·3	13·2	12·3	11·4	12·2	11·7	12·0
23	12·4	12·5	11·9	11·1	11·5	13·0	13·9	**14·4**	14·1	12·9	12·1	11·9	12·0	12·1	12·1
24	12·6	12·6	12·0	11·5	11·3	11·7	12·4	13·3	13·3	13·2	12·8	12·3	12·4	12·2	12·3
25†	12·4	12·6	12·2	12·1	12·2	12·9	13·8	14·2	14·2	13·7	13·2	13·0	13·0	12·6	12·4
26†	12·5	12·9	12·7	12·2	11·5	11·3	12·0	12·8	13·2	13·1	12·4	12·1	12·0	12·1	12·2
27	12·4	12·5	12·3	12·0	11·7	11·3	11·8	12·8	13·1	13·0	12·6	12·5	12·5	12·6	12·8
28	12·3	12·2	12·2	11·7	11·5	11·5	12·0	12·5	12·9	13·1	13·0	12·9	13·1	13·1	12·5
29	11·0	11·0	11·1	10·8	10·8	11·2	11·9	12·7	12·8	12·5	12·5	12·1	11·9	11·5	12·0
30	11·9	11·7	11·3	11·3	11·4	11·6	12·2	13·6	14·0	13·1	12·1	12·2	12·3	12·2	12·0
31	11·0	10·3	10·6	10·3	10·8	11·7	12.1	13·7	13·5	13·0	12·7	11·7	11·8	12·3	12·3
Mean .	12·2	12·1	12·0	11·6	**11·5**	11·6	12.2	12·9	**13·0**	12·7	12·1	11·8	11·9	12·1	12·2
Mean† .	12·4	12·5	12·4	11·9	**11·6**	11·6	12·3	12·9	**13·1**	12·7	12·1	11·9	12·1	12·3	12·3

APRIL.

1	12·0	12·2	11·6	11·0	10·9	11·1	11·8	12·4	12·7	12·2	11·6	11·7	11·6	12·0	12·5
2	11·3	11·2	10·6	10·2	10·9	11·7	12·7	13·6	13·8	13·1	12·7	11·6	11·5	11·7	12·2
3	11·6	11·3	10·5	10·0	10·3	11·0	12·7	13·9	14·0	13·4	12·2	11·7	10·9	11·8	12·3
4	11·3	10·9	10·0	9·7	10·3	10·9	12·3	14·0	14·0	13·7	12·7	12·2	12·2	12·0	12·2
5	11·6	11·4	10·7	10·5	10·8	10·9	11·9	13·0	13·6	13·1	12·8	12·5	12·3	12·2	12·1
6	11·9	11·7	10·6	10·3	10·1	10·7	11·5	12·9	13·5	13·2	12·9	12·3	12·0	12·3	12·5
7	11·9	11·4	10·1	9·9	10·0	9·9	11·6	13·1	13·6	13·5	12·7	11·7	11·4	12·0	11·7
8	11·6	11·8	11·0	10·7	10·6	10·9	12·3	14.0	14·3	13·7	12·6	11·9	11·5	11·9	12·1
9	11·8	11·3	10·6	10·4	10·9	11·3	11·8	13.3	13·8	13·4	12·5	11·8	11·5	11·9	12·2
10	11·8	11·7	11·3	11·3	11·3	11·4	12·1	13·5	14.1	13·8	13·1	12·3	12·0	12·0	12·3
11	11·7	11·8	11·7	11·3	11·0	11·0	12·3	13·5	13·7	13·1	12·6	11·8	11·4	11·4	11·8
12†	11·7	11·7	11·2	10·7	10·7	10·8	11·5	13·2	14·3	14·5	14·0	13·4	12·4	11·8	12·1
13	12·1	12·0	11·0	10·2	9·7	9·6	11·0	12·8	13·7	13·6	13·1	12·8	12·8	13·1	13·1
14	12·3	12·4	11·7	11·3	11·2	11·0	12·3	13·5	14·1	13·1	12·7	11·9	11·7	12·1	12·3
15	12·2	12·1	11·8	11·1	10·8	11·5	12·7	12·2	13·7	13·1	12·2	11·3	11·5	12·4	12·6
16	11·9	11·7	10·8	10·6	10·8	11·8	12·5	13·4	13·5	12·9	12·6	12·2	12·2	12·2	12·4
17	12·3	11·9	11·2	10·7	10·4	11·1	11·9	12·7	12·8	12·9	12·9	12·5	12·1	12·3	12·6
18	12·3	11·9	11·4	10·8	10·9	12·2	13·7	14·5	14·2	13·9	12·5	11·3	11·5	11·5	12·0
19†	11·3	11·1	10·2	9·8	10·0	11·1	13·1	13·6	13·6	13·3	12·7	12·0	11·7	12·3	12·7
20†	12·1	11·7	10·8	10·6	10·9	12·4	14·2	15·2	15·3	14·5	13·8	13·0	12·3	12·2	12·5
21†	12·0	11·6	10·9	10·6	10·4	10·7	12·8	13·7	13·7	13·4	13·0	12·2	11·8	11·7	12·0
22	12·1	11·9	11·3	10·9	11·1	12·0	13·6	14·8	14·7	14·6	14·1	13·4	12·5	12·0	12·5
23	11·7	11·1	10·5	10·1	9·8	11·1	12·1	13·0	13·1	12·8	11·9	11·2	10·1	10·6	11·6
24	11·7	11·2	10·6	10·1	10·5	11·4	12·4	13·5	14·1	13·9	13·0	12·6	12·1	12·4	13·1
25	12·3	12·1	12·4	12·4	12·5	13·3	14·6	**15·4**	15·0	13·9	13·3	12·6	12·0	12·0	12·7
26	11·9	12·0	11·8	11·5	11·6	12·5	13·3	14·7	15·1	15·3	14·8	13·9	13·3	13·5	13·6
27	12·2	11·7	11·2	11·4	11·5	12·3	12·8	13·5	13·7	13·6	12·6	11·8	11·5	11·8	12·5
28	11·6	11·3	10·5	10·5	11·0	12·4	13·6	14·4	14·3	13·6	12·9	12·6	12·4	12·3	12·3
29	11·7	11·3	10·7	10·5	10·5	11·4	13·0	14·0	14·3	14·2	13·7	13·0	2·3	12·2	12·5
30†	11·8	11·5	10·5	10·2	10·8	11·8	13·1	14·2	14·5	14·2	13·8	13·1	12·6	12·5	12·6
Mean .	11·9	11·6	11·0	**10·6**	10·7	11·4	12·6	13·6	**13·9**	13·6	12·9	12·3	11·9	12·1	12·4
Mean† .	11·9	11·6	10·8	**10·5**	10·6	11·4	13·0	14·1	**14·4**	14·0	13·5	12·7	12·1	12·1	12·3

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

MARCH. 0° PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
12·5	12·5	12·5	12·4	12·4	12·4	12·4	12·5	12·5	12·6	9 50	11·6	2 10	13·3	1†
12·8	12·8	12·2	11·5	10·9	11·1	11·0	11·9	11·3	12·2	18 50	10·7	7 10	13·7	2
12·1	12·1	12·1	11·9	12·1	11·9	11·4	11·6	12·0	11·9	12 44	10·2	7 54	13·4	3
12·3	12·3	12·2	12·0	12·1	11·3	11·4	11·3	11·3	11·9	3 42	11·2	7 38	13·1	4
12·3	11·4	11·5	12·0	12·2	12·2	12·2	12·2	11·7	12·0	3 32	11·1	6 56	13·4	5
12·2	12·2	12·3	12·2	11·7	11·6	11·6	12·1	12·3	11·7	6 10	10·4	1 46	12·6	6
12·3	12·1	11·6	11·6	12·2	11·5	11·9	11·7	11·7	12·0	10 02	11·3	8 00	13·2	7
12·3	12·3	11·9	11·6	11·3	11·3	11·2	11·5	12·1	11·7	4 44	10·7	0 20	13·0	8
11·5	12·4	12·5	12·3	12·2	12·1	12·3	12·0	11·8	12·1	3 50	11·1	9 10	13.2	9
12·1	11·8	11·7	11·1	11·6	11·8	11·5	11·9	12·0	11·8	11 30	10·8	7 00	12·7	10
12·3	12·3	12·3	12·3	12·3	12·3	12·4	12·3	12·3	12·2	0 40	11·4	7 30	13·3	11
12·0	12·1	12·2	12·1	12·2	12·2	12·3	12·3	12·5	12·1	5 10	11·1	1 50	12·9	12
12·3	12·3	12·1	11·8	11·5	11·3	11·5	11·4	11·6	11·8	10 10	11·1	1 30	13·0	13
12·2	12·2	12·2	12·1	11·8	11·9	11·9	12·0	12·2	11·9	4 22	10·2	7 30	13·2	14
11·9	12·0	12·0	12·0	12·0	12·0	12·1	12·1	12·2	11·9	4 20	10·9	1 40	12·4	15†
12·2	12·2	12·2	11·9	11·7	11·8	11·9	12·1	12·2	11·9	4 10	10·1	7 30	13·2	16†
12·2	12·2	12·2	12·2	11·9	11·6	11·7	12·1	12·3	12·1	3 50	11·4	6 50	13·2	17
11·9	11·3	11·2	10·9	11·5	11·2	11·3	12·0	12·1	11·7	18 20	10·3	8 10	12·7	18
12·1	12·2	12·2	12·1	12·1	12·1	12·2	12·2	12·3	12·1	3 42	10·4	7 58	13.6	19
12·1	12·0	12·0	11·9	11·9	12·1	12·1	12·2	12·3	12·1	4 10	10·9	8 00	13·5	20
12·3	12·4	12·1	11·7	11·7	11·9	12·3	12·3	12·9	12·5	11 58	11·3	8 06	14·5	21
12·3	12·2	12·1	12·0	11·7	12·2	11·9	12·2	12·5	12·3	2 34	11·1	6 50	14·4	22
12·1	12·3	12·1	12·1	12·1	12·1	12·1	12·3	12·5	12·4	2 58	10·9	7 14	14·7	23
12·4	12·4	12·2	12·1	12·1	12·1	12·2	12·3	12·6	12·3	3 44	11·2	6 56	13·5	24
12·4	12·3	12·3	12·1	12·1	12·1	12·1	12·2	12·4	12·7	21 12	11·9	6 30	14.2	25†
12·2	12·2	12·2	12·1	12·1	12·1	12·1	12·2	12·3	12·3	4 50	11·3	7 30	13·3	26†
12·0	12·8	12·5	12·3	11·9	12·1	12·1	12.1	12·2	12·4	4 54	11·2	7 30	13·1	27
12·4	11·8	10·8	10·2	9·7	10·3	11·0	11·0	11·8	11·9	19 00	9·2	12 54	13·3	28
11·7	11·7	11·8	11·6	11·4	11·3	12·0	11·4	11·8	11·7	2 54	10·6	6 54	13·1	29
11·9	12·0	11·6	11·8	11·3	10·6	10·9	10·7	10.7	11·8	22 24	10·1	7 38	14·5	30
12·0	11·4	11·2	11·2	11·3	11·9	11·9	11·7	11·7	11·8	0 38	10·1	7 30	14·1	31
12·2	12·1	12·0	11·8	11·8	11·7	11·8	11·9	12·1	12·1					Mean.
12·3	12·3	12·3	12·1	12·1	12·1	12·2	12·3	12·4	12·3					Mean†.

APRIL.

12·2	11·9	12·0	12.0	11·9	11·5	11·4	11.5	11·4	11·8	3 50	10·7	7 50	12·9	1
12·4	12.1	12·0	12·0	11·8	11·5	11·5	11·9	11·9	11·9	2 46	10·0	7 58	14·1	2
12·0	12·0	12·1	11·4	11·7	11·4	11·2	11·0	11·1	11·7	2 58	9·9	7 30	14·2	3
12·6	12.5	11·9	11·9	11·9	11·9	11·9	11·1	10·9	11·9	2 38	9·7	7 30	14·2	4
12·2	11·9	11.7	11·7	11·7	11·7	12·1	12·2	11·9	11·9	2 56	10·5	8 10	13·7	5
12·5	12·0	11·7	11·3	11·7	11·8	11·8	11·9	11·9	11·9	2 50	10·0	8 14	13·7	6
11·7	12·0	12·0	11·9	11·8	11·5	11·4	11·5	11·5	11·6	2 44	9·5	7 46	13·9	7
11·9	11·8	12·0	11·9	11·8	11·5	11·6	11·7	11·9	11·9	3 40	10·5	7 30	14·5	8
12·3	12·3	12·2	12·0	11·8	11·5	11·3	1·6	11·8	11·9	2 52	10·1	7 30	13.9	9
12·5	12·3	12·0	11·8	11·8	11·6	11·7	11·7	11·8	12·1	2 52	11·2	8 22	14·3	10
12·2	11·8	11·8	11·8	11·7	11·7	11·6	11·5	11·5	11·9	4 10	10·7	7 30	13·8	11
12·3	12·3	12·0	11·7	11·7	11·7	11·7	11·7	11·9	12·1	3 54	10·5	8 30	14·7	12†
13·2	12·1	11.1	11·6	11·7	12·2	12·0	11·7	12·1	12·0	4 30	9·4	8 00	13·7	13
11·7	12·1	12·0	11·7	11·8	11·7	11·9	11·9	12·1	12.1	2 56	10·9	7 38	14.7	14
12·6	12·5	12·3	12·2	12·2	11·8	12·2	12·1	12.1	12·1	4 00	10·6	7 30	13·7	15
12·5	12·3	12·4	12·2	12·1	12·0	11·9	12·0	12·3	12·1	3 24	10.3	7 10	13·7	16
12·7	12·7	12·4	12·1	12·1	12·3	11·9	12·9	12·5	12·1	3 22	10·4	9 30	13·4	17
11·6	11·6	11·7	11·8	11·6	11·6	11·6	11·3	11·3	12·0	3 20	10·4	6 54	14·7	18
12·7	12·6	12·5	12·3	11·9	11·6	11·6	11·8	12·1	12·0	2 30	9·7	6 30	13·7	19†
12·5	12·5	12 4	12·2	12·2	11·9	11·9	11·9	11·9	12·5	3 24	10·3	7 30	15·6	20†
12·3	12·2	12·0	11·9	11·9	11·8	11·7	11·7	12·0	12·0	4 36	10·3	6 50	13·9	21†
11·9	12·0	12·0	12·1	12·0	11·8	11·5	11·9	11·8	12·4	3 10	10·7	7 00	14·2	22
12·0	12·0	12·1	12·3	11·7	11·6	11·7	12.1	11·8	11·6	12 00	9·5	7 54	13·3	23
13·3	13 0	13·0	12·2	12·2	12·0	11·9	11·9	12·5	12·3	3 26	9·8	8 22	14·4	24
12·6	12·6	12·1	11·7	11·1	10·9	11·2	11·3	11·6	12·5	19 38	10·7	7 14	15·7	25
13·0	12·7	12·3	12·1	11·6	11·7	11·6	11·5	12·2	12·8	3 18	10·3	9 08	15·5	26
12·5	12·4	12·2	12·1	12 0	11·5	11·5	11·6	11·7	12·1	1 58	11·0	7 48	14·2	27
12·5	12·3	12·4	12·0	12·1	12·3	12·1	11·6	11·5	12·3	2 30	10·3	7 30	14·6	28
12·5	12·5	12·2	12·0	12·0	11·7	11·7	11·5	12·1	12.2	3 30	10.2	7 30	14·3	29
12·6	12·6	12·5	12·2	12·3	12·3	12·2	12·2	12·2	12·4	3 10	10·2	7 30	14·5	30†
12·4.	12·3	12·1	11·9	11·9	11·7	11·7	11·7	11.8	12·1					Mean.
12·5	12·4	12·2	12·0	11·9	11·8	11·7	11·8	11·9	12·2					Mean†.

*See footnote on page B-5.
†Five international quiet days.

DECLINATION (WESTERLY). 1932.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

MAY. 0° PLUS TABULAR QUANTITIE..

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	12·0	11·3	10·8	10·8	11·0	12·2	13·8	15·1	15·6	15·3	14·4	13·4	12·6	12·5	12·9
2	11·6	11·3	10·5	10·4	10·8	12·5	14·0	14·7	15·1	14·6	13·2	12·5	12·6	12·8	13·2
3	10·5	10·5	10·8	11·1	10·6	11·2	12·5	14·1	14·0	13·4	11·9	11·5	11·5	12·3	12·7
4	11·4	10·8	10·5	10·4	10·4	11·2	12·6	13·6	14·2	14·2	13·7	13·3	12·9	12·8	13·1
5	11·6	11·4	10·4	10·3	10·5	11·7	13·3	14·2	14·6	14·7	13·7	12·8	12·3	12·5	12·7
6	11·9	11·2	10·5	10·4	10·8	12·1	13·6	14·6	14·7	14·3	13·2	12·8	12·4	12·4	12·5
7	12·1	11·4	10·4	10·3	10·5	11·6	13·0	14·2	14·5	13·7	12·7	11·8	11·6	11·7	12·2
8†	11·9	11·2	10·8	10·9	11·6	12·3	13·1	13·6	14·3	14·2	14·0	13·3	12·5	12·3	12·4
9†	11·6	11·1	10·4	10·3	11·0	12·1	13·3	14·0	14·5	14·1	12·8	11·6	11·7	12·1	12·3
10	11·5	10·5	9·9	9·6	10·4	12·6	14·1	15·1	15·5	15·0	14·0	13·0	12·5	12·5	12·5
11	12·2	12·4	11·6	11·8	12·3	13·4	14·2	14·2	14·5	14·2	13·3	12·9	12·3	12·5	12·7
12	11·5	11·1	11·2	11·4	12·5	13·7	14·5	15·3	15·2	14·5	13·4	12·4	12·1	12·2	12·2
13	11·9	10·9	9·8	9·2	9·9	11·4	12·8	12·9	12·9	12·5	12·3	11·8	11·6	12·3	12·5
14	11·6	11·2	10·5	10·5	11·4	12·6	13·1	13·2	13·1	13·2	13·2	13·0	13·0	13·1	13·0
15	11·9	11·1	10·7	11·0	12·1	13·1	13·7	14·1	14·0	13·8	13·0	12·3	11·8	11·5	12·2
16	11·5	10·6	10·1	10·2	11·3	12·6	13·4	13·2	14·0	13·3	12·6	11·7	11·9	12·4	12·5
17	12·1	11·0	10·1	10·2	11·7	13·9	15·6	15·9	15·0	14·0	12·8	12·2	12·0	12·1	12·4
18†	12·2	11·8	11·3	11·3	12·1	13·1	13·6	13·8	13·9	13·9	13·3	13·0	12·5	12·5	12·6
19†	12·4	11·5	10·3	10·0	10·5	11·5	12·3	12·8	13·1	13·4	13·2	13·1	12·9	12·5	12·3
20†	12·3	11·6	10·4	9·9	10·8	11·7	12·6	13·5	13·8	13·8	13·6	13·0	12·6	13·0	13·0
21	12·4	11·5	10·5	10·3	11·3	12·2	13·4	14·2	14·9	14·4	13·7	13·1	12·1	12·1	12·3
22	11·9	11·0	10·2	10·3	12·3	14·9	16·2	16·2	15·5	14·9	14·0	13·2	12·2	11·9	12·6
23	12·0	11·1	10·0	9·6	10·7	12·4	14·1	15·5	16·1	12·8	14·4	13·2	12·4	12·4	12·6
24	11·6	10·1	8·7	8·2	9·4	10·7	12·0	13·0	13·7	13·5	13·1	12·7	12·9	12·8	13·0
25	11·4	10·5	10·6	10·6	11·3	12·6	13·4	13·8	13·9	13·0	12·8	12·3	12·2	12·0	12·0
26	11·4	10·4	9·8	9·6	10·2	11·1	13·0	13·9	14·3	13·9	13·5	13·1	12·9	12·7	12·7
27	12·0	11·7	10·9	10·7	11·1	12·7	13·1	13·4	13·3	13·2	13·2	12·8	12·8	12·8	12·8
28	11·3	11·0	10·4	10·2	11·7	12·9	13·7	13·8	14·0	13·6	12·9	12·6	12·5	12·7	12·7
29	11·7	10·8	10·2	9·5	9·9	11·3	12·8	13·7	13·9	13·3	12·8	11·9	12·1	11·7	10·7
30	10·1	10·3	9·6	8·9	8·7	10·9	12·9	14·1	14·4	13·7	13·5	13·7	13·7	13·5	12·8
31	10·7	10·4	9·5	9·2	9·7	10·4	12·2	13·4	13·7	13·4	12·9	12·3	11·8	12·3	12·4
Mean . .	11·7	11·1	10·4	**10·2**	10·9	12·2	13·4	14·1	**14·3**	13·9	13·3	12·7	12·4	12·4	12·5
Mean† . .	12·1	11·5	10·6	**10·4**	11·2	12·1	13·0	13·5	**13·9**	13·9	13·4	12·8	12·4	12·5	12·5

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1	11·1	10·6	10·3	10·2	11·1	12·6	13·9	15·1	15·4	15·1	14·8	13·9	12·7	12·6	12·9
2	11·8	10·9	10·2	10·3	10·6	11·7	13·0	13·3	13·4	13·1	12·8	12·6	12·6	12·6	12·6
3†	11·7	10·6	9·9	10·3	11·1	12·6	14·1	14·8	14·7	14·6	13·9	13·1	12·6	12·5	12·8
4†	12·2	11·3	10·5	10·4	10·5	11·7	13·3	13·8	14·3	14·0	13·6	13·3	12·9	12·6	12·7
5	11·8	10·9	10·3	10·6	12·2	13·7	14·4	14·4	14·7	14·5	14·4	13·7	13·1	12·7	13·1
6	11·8	10·9	10·0	9·9	11·1	12·5	13·9	14·4	14·4	13·9	13·6	13·3	13·2	13·2	13·7
7	12·0	11·4	10·9	10·7	10·9	11·4	12·4	13·8	14·1	13·2	12·8	13·2	13·2	13·1	13·3
8	12·5	12·4	12·0	12·5	12·5	12·9	13·7	14·6	14·9	14·3	13·6	13·5	13·0	12·5	12·4
9	12·5	12·0	11·2	10·5	10·9	11·5	12·5	13·4	14·2	14·1	13·5	13·2	12·5	12·5	12·8
10	12·3	11·9	11·1	10·9	11·0	11·5	12·3	12·9	13·5	13·4	14·0	13·0	12·4	12·6	12·6
11	12·0	11·1	10·2	9·7	10·2	11·4	12·6	13·5	14·3	14·5	14·3	13·7	12·9	12·3	12·5
12	12·5	11·8	10·9	10·5	10·7	11·8	12·9	14·0	14·7	14·2	14·3	14·3	13·7	13·3	12·7
13	11·9	11·4	10·9	10·9	11·8	12·6	13·5	13·7	14·5	14·3	14·0	13·7	13·3	12·8	12·6
14	12·4	11·7	11·5	11·5	12·1	12·6	12·9	13·5	14·1	14·4	14·0	13·6	13·3	13·1	13·0
15†	12·0	11·4	10·8	10·6	11·5	12·6	13·3	14·2	15·4	15·7	15·0	14·2	13·5	13·1	13·2
16	12·3	11·3	10·9	11·5	11·6	12·3	13·3	13·8	13·7	13·2	12·9	12·7	12·6	12·7	13·2
17	12·0	11·3	11·1	11·5	12·7	13·9	14·7	15·6	15·7	14·9	13·8	12·8	12·7	13·2	13·7
18	12·5	11·8	11·4	11·6	11·9	13·0	14·1	14·6	14·5	13·8	13·0	12·8	12·6	12·8	13·3
19	12·4	12·0	11·5	11·2	12·0	13·4	14·4	15·4	15·5	15·0	14·7	14·1	13·7	13·8	13·9
20	11·9	11·4	10·5	10·6	11·1	12·2	13·6	14·9	15·1	13·9	13·5	13·0	13·5	13·6	13·3
21	11·5	10·8	11·1	11·5	12·4	13·6	14·7	15·5	**16·0**	15·5	15·4	14·7	14·1	13·6	13·4
22	12·0	11·1	10·5	10·6	11·5	12·6	13·0	13·6	13·6	13·8	13·3	13·0	12·6	12·9	12·9
23	11·6	10·6	10·4	10·5	11·2	12·3	13·4	14·3	15·5	15·4	14·5	13·3	12·5	11·8	12·3
24	12·4	11·4	10·6	10·5	10·7	12·2	14·0	15·1	15·4	15·0	14·8	14·0	13·2	12·7	12·7
25	12·1	11·3	10·2	9·7	10·5	12·2	13·6	15·0	14·9	14·9	14·3	13·7	13·5	12·9	13·3
26	12·5	11·7	10·8	10·4	11·0	11·9	13·0	14·8	15·4	14·7	13·8	13·9	13·7	13·7	13·6
27†	12·0	10·8	10·3	10·4	11·8	13·5	14·8	14·9	14·6	14·1	13·9	13·5	13·1	13·0	13·3
28†	12·3	11·7	10·9	10·7	10·6	11·9	13·2	13·5	14·2	13·9	13·5	13·8	13·8	13·6	13·7
29	12·1	11·1	10·9	11·1	11·6	12·8	14·1	15·5	15·7	14·9	13·9	12·9	12·5	12·8	13·2
30	12·5	11·8	11·4	11·9	12·3	13·8	13·5	14·7	15·3	15·1	14·4	13·7	13·3	12·9	13·2
Mean .	12·1	11·3	10·8	**10·8**	11·4	12·5	13·5	14·4	**14·7**	14·4	13·9	13·5	13·1	12·9	13·1
Mean† .	12·1	11·2	10·5	**10·5**	11·1	12·5	13·8	14·3	**14·7**	14·5	14·0	13·6	13·1	13·0	13·1

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

MAY. 0° PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
13·1	12·9	12·6	12·5	12·3	12·0	11·9	12·0	11·7	12·7	3 10	10·7	7 50	15·8	1
13·4	13·2	12·5	12·5	12·1	11·6	11·2	10·3	10·2	12·3	21 24	9·5	7 30	15·5	2
12·5	12·3	12·2	11·9	11·5	11·4	11·2	11·4	11·5	11·9	1 04	10·5	7 00	14·5	3
13·2	12·6	11·9	11·9	11·7	11·1	11·3	11·2	11·3	12·1	3 30	10·3	8 00	14·4	4
12·7	12·2	11·4	11·5	11·8	11·5	11·5	11·4	11·5	12·2	2 54	10·3	8 30	15·2	5
12·4	12·4	12·4	12·3	12·1	11·5	11·6	11·9	11·9	12·3	2 04	10·3	7 30	15·1	6
12·3	12·3	12·3	12·2	12·0	12·0	12·0	12·1	12·0	12·1	2 50	10·2	7 50	14·8	7
12·5	12·6	12·5	12·4	12·3	12·1	11·8	11·8	11·7	12·4	1 50	10·7	7 50	15·4	8†
12·7	12·6	12·3	12·1	12·0	12·1	12·0	11·9	11·9	12·2	3 14	10·3	7 50	14·7	9†
13·1	13·1	12·8	12·8	12·8	12·6	12·3	12·2	12·2	12·6	3 20	9·3	7 40	15·6	10
12·4	12·1	12·2	12·4	12·2	12·1	11·9	11·7	11·5	12·6	2 14	11·5	8 30	15·3	11
12·5	12·5	12·2	12·2	12·0	12·1	12·1	12·0	12·0	12·6	1 30	11·1	6 50	15·3	12
12·5	12·6	12·5	12·1	12·3	12·0	11·9	11·5	11·7	11·8	3 08	9·1	6 30	13·1	13
12·8	12·6	12·4	12·3	12·2	12·1	12·1	12·1	11·9	12·4	2 18	10·1	6 06	13·3	14
12·3	12·4	12·2	12·2	12·1	11·9	11·9	11·9	12·0	12·3	1 54	10·5	7 06	14·1	15
12·7	12·6	12·5	12·5	12·4	12·1	12·1	12·1	12·2	12·2	2 06	10·0	8 26	14·1	16
12·6	12·7	12·5	12·3	12·1	12·1	12·1	12·1	12·3	12·6	2 14	10·0	6 18	16·1	17
12·5	12·5	12·4	12·3	12·6	12·5	12·3	12·3	12·4	12·6	2 30	11·1	7 50	14·1	18†
12·5	12·4	12·2	12·1	12·1	12·1	12·1	12·1	12·3	12·1	2 30	10·0	8 30	13·9	19†
13·0	13·0	13·0	12·9	12·8	12·6	12·5	12·6	12·7	12·5	3 10	9·7	7 30	14·0	20†
12·7	12·4	12·1	11·9	11·8	11·9	11·9	11·9	12·0	12·4	2 54	10·1	8 20	15·1	21
12·6	12·8	12·9	12·8	12·8	12·4	12·3	12·4	12·2	12·9	2 50	9·9	5 56	16·5	22
12·7	12·6	12·2	12·0	11·9	11·7	11·6	11·8	12·1	12·4	2 50	9·5	7 50	16·1	23
13·0	13·0	13·0	12·8	12·7	12·3	12·1	12·1	12·0	12·0	2 54	8·0	7 50	13·8	24
12·3	12·2	12·0	12·1	11·7	11·7	11·6	11·7	11·7	12·1	1 10	10·2	7 50	14·5	25
12·9	13·0	12·8	12·4	12·2	12·3	12·0	11·9	11·9	12·3	2 30	9·5	7 52	14·4	26
12·9	12·8	12·7	12·3	12·1	11·8	11·7	11·7	11·4	12·3	3 00	10·5	6 50	13·5	27
12·7	12·7	12·6	12·2	11·8	10·9	11·3	11·5	11·9	12·2	3 00	9·9	8 00	14·3	28
10·8	10·1	11·0	10·9	9·8	9·6	9·1	9·5	10·4	11·1	20 50	7·9	7 50	14·1	29
12·7	12·4	11·9	11·4	10·9	11·1	10·6	10·6	10·7	11·8	3 30	7·0	7 30	14·7	30
12·3	12·3	12·0	11·9	11·5	11·0	11·3	11·4	11·2	11·6	2 50	9·1	7 24	14.0	31
12·6	12·5	12·3	12·2	12·0	11·8	11·7	11·7	11·8	12·3					Mean
12·7	12·6	12·5	12·3	12·4	12·3	12·1	12·2	12·2	12·4					Mean†

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12·9	12·7	12·6	12·5	12·4	12·2	12·1	12·0	12·1	12·7	3 10	10·2	7 30	15·7	1
12·6	12·7	12·6	12·4	12·4	12·2	11·9	11·9	12·1	12·2	2 24	10·1	6 48	13·5	2
12·8	12·7	12·6	12·5	12·3	12·3	12·3	12·3	12·3	12·6	2 14	9·7	7 00	15·0	3†
12·9	13·1	12·7	12·5	12·3	12·4	12·3	12·3	12·2	12·5	3 14	10·1	8 04	14·4	4†
13·2	13·2	12·9	12·6	12·5	12·3	12·2	12·2	12·2	12·8	2 30	10·2	8 00	14·8	5
13·5	13·3	12·9	12·7	12·5	12·3	12·3	12·2	12·3	12·7	2 50	9·7	7 30	14·6	6
13·4	13·2	12·9	12·6	12·5	12·5	12·5	12·4	12·3	12·5	3 20	10·7	7 30	14·8	7
12·7	12·7	12·6	12·5	12·5	12·5	12·3	11·5	12·2	12·9	21 40	11·5	7 50	15·3	8
13·1	12·9	12·8	12·5	12·4	12·2	12·4	12·5	12·3	12·5	3 14	10·3	8 30	14·5	9
12·8	12·6	12·5	12·5	12·4	12·2	11·9	12·1	12·0	12·3	3 42	10·6	9 50	14·5	10
12·5	12·5	12·5	12·8	12·5	12·7	12·6	12·5	12·5	12·5	3 10	9·5	8 30	14·6	11
12·5	12·8	12·8	12·6	12·5	12·3	12·0	12·0	12·0	12·7	3 20	10·3	8 12	14·8	12
12·6	12·8	12·7	12·6	12·6	12·6	12·6	12·6	12·5	12·7	2 34	10·6	8 00	14·6	13
13·1	13·1	12·9	12·6	12·6	12·3	12·3	12·1	12·1	12·8	1 16	11·3	8 48	14·5	14
13·3	13·3	13·1	12·7	12·6	12·6	12·5	12·5	12·4	13·0	2 30	10·5	8 30	15·7	15†
13·4	13·3	13·0	12·8	12·6	12·6	12·6	12·5	12·5	12·6	2 00	10·8	7 10	13·9	16
13·7	13·7	13·4	12·9	12·7	12·6	12·6	12·6	12·6	13·2	1 30	10·7	7 30	15·9	17
13·3	13·2	13·0	12·9	12·6	12·4	12·4	12·2	12·2	12·8	1 56	11·3	6 30	14·7	18
13·7	13·5	13·2	12·9	12·6	12·6	12·1	11·9	11·8	13·2	2 50	11·1	7 30	15·7	19
12·8	12·6	12·6	12·3	11·7	11·5	11·6	11·6	11·6	12·5	2 30	10·2	7 50	15·6	20
13·5	12·9	12·7	12·4	12·1	12·1	11·9	11·8	11·9	13·1	0 48	10·6	7 44	16·0	21
12·9	13·0	12·7	12·5	12·1	12·0	12·0	11·7	11·7	12·4	1 50	10·3	8 42	13·9	22
12·7	12·7	12·7	12·7	12·7	12·7	12·5	12·7	12.5	12·7	1 48	10·4	7 54	15·6	23
12·8	12·7	12·7	12·4	12·2	11·7	11·8	12·2	12·2	12·7	2 24	10·4	7 30	15·5	24
13·7	13·6	13·0	12·7	12·7	12·7	12·5	12·5	12·5	12·8	2 38	9·6	7 20	15·5	25
13·7	13·6	13·2	12·9	12·7	12·5	12·2	12·3	12·2	12·9	2 44	10·3	7 58	15·8	26
13·5	13·3	13·1	12·8	12·7	12·7	12·7	12·6	12·4	12·9	2 50	10·2	6 30	15·0	27†
13·6	13·5	13·4	13·1	13·0	12·7	12·4	12·4	12·2	12·8	3 10	10·5	8 10	14·6	28†
13·5	13·4	13·3	13·2	12·9	12·8	12·7	12·6	12·6	13·0	1 50	10·7	7 30	16·1	29
13·5	13·3	13·1	12·8	12·8	12·6	12·5	12·4	12·4	13·1	2 10	11·3	8 10	15·6	30
13·1	13·1	12·9	12·7	12·5	12·4	12·3	12·2	12·2	12·7					Mean
13·2	13·2	13·0	12·7	12·5	12·5	12·4	12·4	12·3	12·7					Mean†

*See footnote on page B-5.
†Five international quiet days.

DECLINATION (WESTERLY), 1932.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

JULY. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	12·4	11·7	11·1	11·5	12·4	13·6	15·3	16·1	15·5	14·8	14·0	13·5	13·4	13·5	13·8
2	12·8	11·9	11·4	12·2	13·4	14·6	15·9	16·4	16·0	15·5	14·5	13·3	12·8	13·3	13·9
3†	12·9	11·9	11·1	11·2	12·5	14·0	15·5	16·6	16·9	16·5	15·4	14·3	13·8	13·5	13·7
4	12·9	12·4	11·7	11·6	12·4	13·5	15·3	16·2	16·1	15·8	14·9	14·4	14·2	14·2	14·2
5	12·4	11·4	10·8	11·1	12·3	13·6	14·7	15·3	15·8	15·3	15·1	14·6	14·0	13·9	14·3
6	12·9	12·1	11·7	12·2	13·3	14·6	15·6	15·9	15·9	14·5	13·9	13·1	12·8	12·8	13·0
7	12·8	11·7	11·7	10·7	11·8	12·7	14·2	15·8	16·0	15·1	13·7	12·7	12·5	12·5	12·9
8	12·5	11·9	11·1	11·7	12·5	13·2	14·9	15·8	15·4	14·8	13·9	13·7	13·2	13·0	12·9
9	12·6	11·9	11·3	11·3	11·7	12·3	13·5	15·0	16·0	15·8	15·2	14·8	11·8	13·2	13·2
10	12·6	12·1	11·4	11·2	11·7	11·8	12·4	13·9	15·0	14·9	14·3	14·1	13·2	13·1	13·4
11	12·8	12·2	11·6	11·5	11·9	12·0	13·4	14·7	14·9	14·6	14·5	14·3	14·2	14·0	13·8
12	13·2	12·7	11·8	11·1	10·6	11·1	12·1	12·7	13·3	13·7	13·3	13·1	12·9	12·9	13·2
13†	12·8	12·1	11·6	12·0	12·8	13·3	13·9	14·7	15·3	15·1	14·9	14·3	13·9	13·6	13·5
14†	12·8	12·3	11·8	11·5	11·8	12·9	14·3	15·1	15·2	15·3	14·7	13·6	13·0	12·9	13·2
15	12·7	11·9	11·2	11·3	12·2	13·4	14·7	15·3	15·4	14·6	13·3	13·1	13·0	13·1	13·2
16	12·6	12·1	11·3	11·0	11·1	11·9	13·2	14·0	14·2	14·5	14·5	13·7	13·5	12·6	12·5
17	11·6	10·7	10·4	10·9	12·1	13·1	14·1	14·8	14·5	14·7	14·8	13·7	13·1	12·9	13·3
18	12·1	11·2	10·6	10·9	12·0	13·3	14·4	15·1	14·7	14·3	13·3	13·1	13·1	13·5	13·4
19	12·0	10·7	9·3	9·2	11·0	12·9	14·2	14·9	15·1	14·5	13·7	13·0	12·8	13·1	13·3
20	12·3	11·4	10·5	10·7	11·5	12·7	14·5	15·7	15·5	15·0	14·5	13·4	12·9	12·7	13·1
21	12·1	11·7	10·5	9·7	9·4	10·5	12·6	14·1	14·1	14·5	14·3	13·7	13·1	13·1	13·5
22	12·0	11·9	11·1	10·5	10·8	12·4	13·7	15·2	16·1	15·4	14·2	13·4	13·1	13·1	13·3
23	12·1	11·5	10·5	10·1	11·0	12·4	14·6	17·0	17·9	17·2	15·9	14·5	13·4	13·0	13·5
24	12·2	11·5	10·5	10·1	10·2	11·5	13·5	14·5	14·9	14·8	15·0	14·7	14·2	13·7	13·6
25	12·0	11·5	11·0	11·0	11·7	13·5	15·3	16·2	16·0	14·9	14·1	13·8	13·6	13·4	13·5
26	12·4	12·1	11·5	11·8	13·0	13·6	14·6	15·5	16·5	16·8	16·0	14·9	13·7	13·1	13·1
27	12·3	11·8	11·3	11·3	12·5	13·4	14·5	15·7	16·1	15·5	14·2	14·0	13·4	13·1	13·1
28†	12·7	12·4	12·0	11·3	11·8	12·9	14·2	14·9	15·2	15·0	14·1	13·3	13·0	12·9	13·1
29†	12·3	11·8	11·0	10·3	10·8	12·0	13·0	13·4	14·1	14·1	13·9	13·3	13·1	13·1	13·4
30	12·8	12·3	11·3	10·8	10·7	11·3	12·1	13·0	13·5	14·2	14·4	13·8	13·1	12·7	13·0
31	12·3	11·9	11·7	11·7	12·6	13·7	14·2	15·2	14·8	14·1	13·3	13·1	13·1	12·8	13·1
Mean	12·5	11·8	11·1	11·1	11·8	12·9	14·1	15·1	15·3	15·0	14·4	13·7	13·3	13·2	13·3
Mean†	12·7	12·1	11·5	11·2	11·9	13·0	14·2	15·0	15·4	15·2	14·6	13·7	13·3	13·2	13·3

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1	12·1	11·5	10·9	11·1	11·6	12·4	13·4	14·3	14·7	14·3	13·9	13·5	13·0	12·9	13·2
2	12·2	11·4	11·4	11·6	12·3	13·8	14·5	14·7	15·2	15·2	14·8	14·3	13·5	13·2	13·7
3	12·7	12·3	11·4	11·2	11·5	12·8	14·2	14·8	14·6	14·5	13·7	13·0	12·2	12·2	13·2
4	12·4	21·6	10·9	11·2	12·1	13·0	14·2	14·6	14·4	14·2	14·3	14·0	13·0	12·9	13·2
5	12·6	12·2	11·5	11·2	11·3	12·9	14·7	15·5	15·5	14·4	13·0	11·9	12·1	12·5	13·2
6	12·5	11·8	10·9	10·2	11·2	12·6	14·7	15·6	15·2	14·8	14·2	13·5	13·1	13·2	13·2
7	12·8	12·1	11·1	10·1	11·0	13·0	14·8	15·6	15·5	16·0	15·9	14·7	13·7	13·3	13·2
8	12·6	11·8	10·4	9·9	10·2	11·3	13·3	14·5	14·7	14·7	14·8	14·0	13·3	13·2	13·3
9	12·6	11·8	11·1	11·1	11·7	13·0	13·7	14·5	14·6	14·2	14·1	13·6	13·2	13·1	13·2
10†	12·7	12·3	11·5	11·1	11·6	12·8	14·0	15·6	15·6	14·7	14·1	13·7	13·1	13·1	13·6
11	12·9	12·3	11·4	11·1	11·6	12·4	13·5	13·5	13·2	13·2	13·2	12·7	12·1	12·2	13·2
12	12·6	12·1	11·1	11·2	12·5	13·7	14·0	14·6	14·9	14·8	14·8	14·7	14·1	13·8	13·9
13	12·1	11·3	11·0	11·5	12·6	13·5	14·5	16·2	16·2	15·7	15·3	14·3	13·9	13·2	13·2
14	12·2	11·8	11·1	10·7	11·6	12·3	13·0	13·2	13·9	14·5	13·6	13·0	12·9	13·1	13·2
15	12·7	11·8	10·9	10·9	11·6	12·7	13·8	14·3	14·9	14·7	13·9	13·1	12·7	12·5	13·1
16†	12·9	11·4	10·7	10·9	12·1	13·1	14·0	14·5	14·7	14·1	13·8	13·2	12·9	12·7	13·1
17†	12·1	11·1	10·0	10·0	11·3	13·1	14·7	16·0	15·8	15·3	14·6	13·4	12·9	12·8	13·3
18†	12·1	11·7	11·1	11·0	11·9	13·9	15·3	16·1	16·0	15·2	14·3	13·4	12·7	12·7	13·1
19†	12·0	11·0	9·6	9·0	9·7	11·5	13·1	14·8	15·7	15·1	14·6	13·6	12·7	12·8	13·3
20	12·1	11·4	10·3	9·7	10·5	11·9	13·4	14·9	16·0	16·0	15·0	13·8	13·0	13·0	13·5
21	12·1	11·9	10·9	10·7	10·9	12·1	14·2	16·5	16·2	15·9	14·9	13·6	13·0	12·1	12·9
22	12·4	11·5	10·8	10·6	11·8	13·9	15·0	15·3	15·3	15·0	14·4	13·6	13·1	12·9	12·3
23	12·3	11·6	10·8	10·7	10·9	12·3	13·4	14·2	14·5	14·9	13·0	12·1	12·1	12·1	12·5
24	12·3	11·8	10·7	10·1	10·8	12·6	14·2	15·6	15·4	14·5	13·6	13·2	12·9	12·8	12·9
25	12·5	11·8	10·7	10·1	10·5	11·5	13·0	13·7	14·2	14·1	13·5	13·2	12·9	12·8	13·0
26	12·2	11·5	10·8	10·8	11·7	12·6	14·1	14·5	14·3	14·0	13·2	12·5	12·0	12·3	12·9
27	12·4	11·6	10·7	10·7	11·3	12·1	13·1	13·3	12·3	10·9	11·3	1·6	11·4	11·7	12·1
28	11·6	11·0	10·7	11·0	11·8	12·7	13·6	13·8	13·8	13·6	12·9	12·7	12·5	12·5	12·4
29	11·8	10·5	9·7	9·9	10·4	11·4	12·8	13·5	13·3	12·7	12·2	11·2	11·1	10·8	11·7
30	11·8	11·0	10·7	10·8	11·5	12·5	13·4	14·1	13·8	13·3	12·1	11·1	10·4	11·3	11·9
31	11·8	11·1	11·0	11·7	12·7	14·6	16·3	16·5	16·1	15·1	13·7	12·5	12·0	11·9	12·0
Mean	12·3	11·6	10·8	10·7	11·4	12·7	14·0	14·8	14·9	14·5	13·9	13·2	12·7	12·6	13·0
Mean†	12·2	11·5	10·6	10·4	11·3	12·9	14·3	15·5	15·6	14·9	14·3	13·5	12·9	12·8	13·3

† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

JULY. 0° PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
13·8	13·7	13·4	13·4	13·1	13·0	12·9	13·0	12·9	13·4	2 10	10·9	6 50	16·4	1
13·9	13·9	13·5	13·3	13·1	13·1	13·0	12·9	12·9	13·6	1 52	11·1	6 50	16·6	2
13·9	13·8	13·6	13·2	13·0	13·0	13·0	13·0	13·2	13·7	2 2	10·9	7 36	17·1	3†
14·0	14·1	13·9	13·6	13·2	12·9	12·9	12·9	12·9	13·7	2 50	11·4	7 2	16·5	4
14·2	14·3	14·4	14·2	13·5	12·9	13·0	13·2	12·9	13·6	1 52	10·5	8 10	16·1	5
12·8	13·3	13·2	13·1	13·1	12·8	12·8	12·8	12·7	13·4	2 10	11·3	7 20	16·3	6
13·4	13·5	13·2	13·0	12·9	12·9	12·9	12 8	12·7	13·1	2 22	10·1	7 30	16·3	7
13·2	13·3	13·2	12·9	12·9	12·9	12·5	12·9	12·9	13·2	2 0	10·9	6 46	16·1	8
13·8	13·7	13·5	13·3	13·1	13·0	13·0	12·9	13·0	13·3	1 43	11·1	8 0	16·3	9
13·5	13·2	13·2	13·2	13·0	12·8	12·9	12·9	12·7	13·0	2 20	11·0	7 50	15·3	10
13·8	13·9	13·7	13·6	13·2	13·1	13·2	13·3	13·4	13·4	2 18	11·3	7 31	15·1	11
13·3	13·3	13·1	13·0	12·8	12·5	12·7	12·7	12·7	12·7	4 18	10·4	8 29	14·0	12
13·6	13·7	12·6	13·3	13·1	13·0	13·0	13·0	13·0	13·4	2 3	11·5	7 58	15·9	13†
13·2	13·3	13·2	13·2	13·2	13·0	12·9	12·7	13·0	13·3	3 10	11·3	7 12	15·8	14†
13·2	13·2	13·1	13·1	13·0	12·9	12·8	12·7	12·7	13·1	2 18	11·1	7 29	15·9	15
13·1	13·1	13·0	12·8	12·3	12·0	11·7	12·0	11·7	12·7	3 46	10·9	9 29	15·3	16
13·4	13·3	13·1	13·0	13·0	12·7	12·4	12·3	12·3	12·9	1 14	9·9	7 24	15·1	17
13·3	13·1	13·1	12·8	12·5	12·4	12·5	12·3	12·3	12·9	2 14	10·2	7 30	15·3	18
13·6	13·2	13·1	13·1	12·9	12·8	12·7	12·2	12·6	12·7	2 20	8·8	7 53	15·1	19
13·1	13·1	12·8	13·7	12·7	12·5	12·2	12·2	12·2	12·9	2 30	10·1	6 49	15·8	20
13·4	13·3	12·9	13·0	12·8	12·6	12·1	12·1	12·1	12·5	4 1	9·1	9 24	15·0	21
13·5	13·3	13·0	12·8	12·3	12·1	12·0	12·0	12·3	12·9	3 6	10·2	7 54	16·4	22
13·2	13·1	13·1	12·9	12·8	12·6	12·5	12·4	12·4	13·3	2 51	10·0	7 30	18·1	23
13·5	13·3	13·1	12·8	12·8	12·2	12·1	12·1	12·1	12·9	2 50	10·0	10 31	15·3	24
13·5	13·5	13·3	13·2	13·1	13·0	12·9	12·8	12·8	13·3	3 10	10·9	6 50	16·5	25
13·1	13·3	13·1	13·1	13·0	12·7	12·6	12·4	12·4	13·5	1 54	11·3	8 45	17·2	26
13·3	13·4	13·1	13·1	13·1	13·1	12·9	12·9	12·7	13·3	2 31	11·2	7 30	16·4	27
13·1	13·3	13·2	13·1	13·1	12·9	12·7	12·5	12·4	13·1	2 59	11·2	6 50	15·5	28†
13·7	13·8	13·6	13·3	13·1	13·1	13·1	13·0	12·8	12·9	3 21	10·1	9 2	14·5	29†
13·2	13·5	13·5	13·3	13·1	13·1	12·9	12·8	12·4	12·8	3 26	10·5	10 3	14·8	30
13·2	13·1	13·3	13·2	13·1	13·1	13·1	12·8	12·9	13·1	3 11	11·5	7 2	15·3	31
13·5	13·4	13·3	13·1	13·0	12·8	12·7	12·7	12·6	13·2					Mean.
13·5	13·6	13·2	13·2	13·1	13·0	12·9	12 8	12·9	13·3					Mean.†

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13·2	13·2	12·7	12·4	12·2	12·4	12·7	12·9	12·7	12·8	1 50	10·9	7 44	14·9	1
13·7	13·2	13·2	12·8	13·2	13·1	13·0	13·1	13·0	13·3	1 30	11·2	7 50	15·2	2
13·1	13·3	13·2	13·2	13·0	13·1	13·0	13·0	12·9	13·0	2 50	11·1	6 50	15·1	3
13·5	13·5	13·3	13·3	13·2	13·2	13·1	13·1	13·0	13·1	2 18	10·8	7 16	14·8	4
13·4	13·3	13·2	13·0	13·0	12·7	12·7	12·6	12·3	13·0	3 10	11·2	7 30	16·1	5
13·2	13·0	13·2	12·9	12·9	13·0	12·9	12·8	13·0	13·1	2 58	10·2	6 50	15·8	6
13·2	13·3	13·2	13·1	12·9	12·9	13·0	13·0	12·7	13·3	3 10	10·1	9 30	16·3	7
13·3	13·3	13·4	13·3	13·2	13·2	13·2	13·1	12·9	12·9	3 24	9·9	9 30	15·1	8
13·2	13·2	13·2	13·2	13·2	13·1	13·2	13·1	13·0	13·1	2 20	10.8	7 10	14·7	9
13·7	13·6	13·4	13·3	13·1	13·1	13·1	13·1	12·9	13·3	2 50	11·1	7 30	16·1	10†
13·4	13·5	13·4	13·3	13·1	13·1	13·0	12·9	12·9	12·8	2 30	11·1	6 10	13·7	11
13·5	13·2	13·2	13·2	13·1	12·8	12·6	12·5	12·3	13·3	2 30	11·0	7 30	15·2	12
13·2	13·2	13·1	12·8	12·4	12·4	12·1	12·0	12·1	13·2	2 0	10·9	7 20	16·5	13
13·5	13·6	13·5	13·2	13·1	13·1	13·0	12·9	12·9	12·9	2 54	10·7	9 4	14·7	14
13·2	13·3	13·2	13·1	13·1	12·8	12·9	12·5	12·2	12·9	2 36	10·7	8 0	15·1	15
13·1	13·1	13·1	13·1	12·9	12·8	12·7	12·5	12·4	12·9	2 0	10·5	7 40	15·0	16†
13·3	13·1	13·1	12·8	12·4	12·4	12·3	12·1	12·2	12·9	2 20	9·8	6 50	16·2	17†
13·2	13·2	13·1	13·1	12·9	12·8	12·6	12·4	12·4	13·2	2 30	11·0	7 10	16·2	18†
13·1	13·1	13·1	12·9	12·7	12·5	12·4	12·4	12·4	12·6	3 10	8·9	8 10	16·0	19†
13·8	13·5	13·3	13·1	13·1	13·1	12·9	12·8	12·4	13·0	3 0	9·7	8 30	16·3	20
13 2	13 3	13·1	13 0	12·9	13 0	12·6	12·6	12·7	13·1	3 0	10·6	7 0	16·7	21
12·9	13·1	12·7	12·7	13·1	12·9	12·8	12·5	12·5	13·0	2 40	10·5	7 48	16·0	22
12·0	12·5	12·9	12·9	12·6	12 6	12·3	12·1	12·3	12·4	2 50	10·6	7 50	14·8	23
13·0	13·1	13·0	12·9	13·0	12·9	12·9	12·7	12·8	12·9	2 56	10·0	7 0	15·9	24
13·1	13·1	13·1	12·9	12·7	12·8	12·5	12·3	12·3	12·6	2 58	10·0	8 0	14·3	25
13·0	13·1	13·0	12·9	12·8	12·6	12·8	12·6	12·7	12·7	2 30	10·5	6 40	14·6	26
12·1	11·9	12·0	12·5	12·1	11·8	11·7	12·2	12·3	11·9	2 30	10·2	7 0	13·8	27
12·2	11·8	11·9	11·9	12·4	12.2	2·0	11·9	11·7	12.3	1 24	10·3	6 50	14·1	28
11·7	11·8	12·1	12·2	12·0	11·8	11·7	12·0	12·0	11·7	2 4	9·5	6 50	13·8	29
12·5	12·0	12·1	12·6	12·4	12·6	12·7	12·1	12·0	12·1	11 48	10·2	6 44	14·3	30
12·1	12·3	12·2	12·3	12·1	12·0	12·0	12·0	11·8	12·8	1 12	10·9	6 30	16·7	31
13·1	13·0	13·0	12·9	12·8	12·7	12·7	12·6	12·5	12·9					Mean.
13·3	13·2	13·1	13·0	22·8	12·7	12·6	12·5	12·5	13·0					Mean.†

*See footnote on page B-5.
†Five international quiet days.

DECLINATION (WESTERLY), 1932.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

SEPTEMBER.

0° PLUS TABULAR QUANTITIES.

Date.	Hours. (G.M.T.) 0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	11·6	10·8	9·9	9·7	11·0	12·4	13·7	15·1	15·5	14·8	13·6	12·2	11·7	11·9	11·7
2	11·8	10·7	9·5	9·7	10·9	12·8	14·6	15·3	15·2	14·8	13·6	12·4	11·7	11·7	11·9
3†	11·6	10·5	9·7	10·1	11·3	12·9	14·3	14·8	15·1	14·8	13·7	12·7	12·0	12·4	13·0
4	12·1	11·6	10·7	10·8	11·8	13·3	14·2	14·5	13·7	13·0	12·4	11·4	11·2	11·9	12·3
5	11·7	11·3	10·5	11·0	13·2	14·9	15·9	16·9	16·5	15·3	14·0	12·7	11·9	11·9	12·9
6	12·2	11·5	10·5	10·5	11·8	13·3	14·1	14·1	14·0	13·9	13·4	13·0	12·0	11·2	9·7
7	12·1	11·5	10·8	10·7	12·3	14·2	15·1	16·0	16·0	15·2	14·1	13·0	12·2	12·3	12·7
8	12·8	12·3	11·1	9·9	11·0	13·0	14·5	14·8	14·7	14·1	13·5	13·0	12·8	12·9	13·0
9	11·9	11·4	10·5	9·9	11·0	12·4	14·3	15·3	15·1	14·4	13·3	12·7	12·3	12·6	12·8
10†	12·1	11·7	11·1	11·2	12.7	14·5	16·0	16·0	15·6	14·5	13·2	12·4	12·4	12·7	12·8
11†	12·2	11·8	11·1	11·3	12·5	13·1	14·4	15·1	14·8	13·4	12·2	11·7	12·0	12·7	13·0
12	12·4	12·0	11·0	11·2	12·4	13·8	15·1	15·4	15·5	14·8	13·3	12·8	12·2	12·3	12·8
13	12·3	11·6	10·9	10·9	11·9	13·3	14·3	15·1	15·3	14·9	13·4	12·7	12·5	13·0	13·1
14	12·7	12·0	11·6	11·7	12·7	14·2	16·1	16·9	16·5	15·1	13·4	12·1	12·0	12·9	13·3
15	12·4	11·8	11·1	11·5	12·8	14·1	15·1	15·6	16·1	15·7	14·5	13·0	12·3	12·7	13·0
16†	12·1	11·9	11·3	11·1	11·8	13·3	14·7	16·1	16·4	15·4	13·7	12·6	12·0	12·3	12·7
17†	12·6	12·1	11·0	10·3	11·3	12·5	14·1	15·7	15·8	15·1	14·0	13·0	13·0	13·0	13·1
18	12·8	12·5	11·7	11·3	11·6	12·3	13·9	15·3	15·3	14·7	13·3	12·2	12·1	12·6	13·1
19	12·4	12·3	11·8	10·8	11·3	12·4	14·0	15·1	15·1	14·2	12·4	12·0	12·1	13·0	13·3
20	12·3	11·9	10·9	11·5	12·3	13·1	14·0	14·4	14·0	13·5	12·9	12·7	12·7	13·2	13·1
21	12·7	12.6	11·6	11·8	13·4	14·3	15·0	16·1	15·9	15·0	13·6	12·4	12·4	13·0	13·1
22	13·1	13·0	12·6	12·1	12·0	12·9	13·8	14·6	14·7	14·1	13·0	12·5	12·5	12·6	12·7
23	12·6	12·5	12·1	12·2	13·0	13·8	14·2	15·1	15·6	14·4	13·3	12·4	11·7	12·2	12 3
24	12·8	12·3	11.8	11·9	12·5	13·4	14·3	15·3	15·6	15·1	13·8	12·9	12·4	12·5	13·0
25	13·0	12·3	11·6	11·3	11·3	12·2	13·5	14·3	14·0	13·1	12·5	11·2	11·3	11·7	11·7
26	12·5	12·1	11.6	11·5	12·9	14·2	15·2	15·9	15·4	13·9	12·5	11·6	12·1	12·8	13·1
27	12·3	12·1	11·1	10·5	11·7	13·2	14·4	14·9	14·8	13 9	12·7	11·4	11·2	11·8	12·1
28	12·7	12·1	11·2	10·5	11·3	12·6	13·6	13·8	13·5	12·7	11·7	10·9	11·0	12·2	12·2
29	12·2	11·7	10·9	10·9	12·4	13·9	15·1	15·3	14·9	13·8	12·4	11·7	12·3	13·3	13·4
30	12·9	12·7	11.3	11·1	12·0	13·4	14·1	14·4	13·9	12·4	12·1	11·8	12·1	12·4	13·0
Mean	12·4	11·9	11·1	11·0	12·0	13·3	14·5	15·2	15·1	14·3	13·2	12·3	12·1	12·5	12·7
Mean†	12·3	11·7	10·9	10·9	12.0	13·4	14·8	15·7	15·6	14·7	13·4	12·5	12·3	12·6	12·9

OCTOBER.

1	13·3	13·0	12·5	12·0	12·6	14·0	15·2	16·0	15·8	14·7	13·2	12·5	12·7	13·2	13·2
2	13·5	13·3	12·5	12·5	13·1	13·9	15·0	15·7	15·7	14·9	13·4	12·4	12·4	12·4	12·8
3	13·0	12·5	11·6	11·2	11·8	12·5	13·2	14·2	14·6	14·5	13·8	13·4	13·0	12·8	12·8
4	13·5	13·2	12·2	11·7	12·2	12·7	13·7	15·2	15·4	14·1	13·3	12·9	13·0	13·1	13·3
5	12·9	12·9	12·4	12·2	12·7	13·6	14·2	14·8	14·8	13·9	13·4	13·3	13·4	13·6	13·7
6†	13·5	13·5	13·0	12·7	13·4	14·0	14·5	15·1	15·0	14·1	13·4	13·3	13·3	13·4	13·5
7	13·1	13·2	12·5	12·1	12·2	12·4	12·7	13·7	14·3	13·9	13·3	13·1	12·9	13·4	13·4
8	13·6	13·5	12·9	12·0	11·7	12·3	13·4	14·5	15·1	14·5	13·6	13·2	13·4	13·5	13·4
9	13·5	13·4	12·3	11·6	12·0	13·2	14·5	15·4	15·1	14·5	13·6	13·3	13·3	13·5	13·6
10	13·5	13·3	12·7	11·9	11·7	12·9	13·7	14·7	14·8	14·5	13·4	12·9	13·3	13·5	13·3
11	13·5	13·4	12·8	12·3	12·2	12 5	13·0	14·2	14·7	14·0	13·3	13·3	13·2	13·5	13·4
12	13·4	13·4	12·9	11·6	11·2	12·1	13·6	14·6	15·0	14·4	13·4	12·9	13·2	13·4	13·3
13†	13·0	13·0	12·3	11·4	11·5	13·2	14·4	15·1	15·0	14·3	13·4	13·2	13·2	13·5	13·3
14†	13·2	12·9	12·5	12.3	12·4	12·5	13·2	14·3	14·4	13·7	12·9	12·4	12·6	13·2	13·2
15	13·4	13·4	12·3	11·7	12·2	13·3	14·7	15·4	14·6	13·4	11·9	11·7	11·9	11·9	11·3
16	13·1	13·0	12·6	12·3	12·4	13·2	13·4	14 2	14·3	13·5	12·7	11·3	11·8	12·4	12 7
17	13·1	13·1	12·5	11·5	11·8	12·1	12·6	13·5	13·6	12·9	12·8	12·4	12·3	12 6	11·8
18	13·2	13·2	12·1	11·4	11·6	12·1	12·7	13·9	14·3	14·1	13·3	12·4	12·6	13·1	13·0
19	13·1	13·1	12·3	12·0	12·6	13·4	14·1	14·9	14·4	13·8	13 3	12·7	12·4	12·2	13·1
20	13·3	13·2	12·8	12·1	12·2	13·5	14·9	15·8	15·1	13·7	13·3	12·6	12·4	12·2	12·6
21	13·1	13·7	13·2	12·7	12·3	12·4	12·9	13·2	13·1	12·9	12·1	12·6	12·8	12·8	13·0
22	13·1	13·4	13·0	12·1	12·1	12·3	12·9	13·4	13·5	13·1	13·1	13·1	13·2	13·1	13·1
23	13·6	13·2	12·7	12·2	12·4	12·9	13 0	13·3	12·8	11·8	11·4	11·7	12 7	13·1	13·0
24	13·0	13·3	13·4	13·2	13·5	13·5	13·9	13·3	13·1	12·3	11·7	12·0	12·9	12·3	13·1
25	13·0	13·1	12·9	12·3	12·5	13·0	13·8	13·8	13·0	12·7	12·2	12·2	12·5	12·6	12·5
26†	13·4	13·4	13·3	13·0	13·0	13·0	13·8	14·1	13·7	13·4	13·1	13·0	13·0	12·9	13·0
27	13·2	13·3	12·7	12·0	11·9	12·8	13·2	13·1	12·9	13·4	13·3	12·9	12·9	13·5	13·1
28†	13·5	13·5	12·9	12·2	12·2	12·5	13·2	13·8	13·9	13·4	12·9	12·9	13·3	13·2	13 1
29	13·5	13·7	13·2	12·2	11·7	12·1	12·8	13·9	13·9	13·5	13 2	13·1	13·0	13·0	13·0
30	13·3	13·8	14·1	13·8	13·3	13·5	14·3	14·3	13·8	13·3	13·1	13·0	13·0	13·1	13·1
31	13·3	13·3	13·1	13·0	13·6	14·0	14·5	14·5	14·2	13·8	13·2	13·1	12·7	12·8	12·8
Mean	13·3	13·3	12·7	12·2	12·3	12·9	13·7	14·4	14·3	13·7	13·0	12·7	12·8	13·0	13·0
Mean†	13·3	13·3	12·8	12·3	12·5	13·0	13·8	14·5	14·4	13·8	13·1	13·0	13·1	13·2	13 2

† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

SEPTEMBER. 0° PLUS TABULAR QUANTITIES.

Hours (G.M.T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
′	′	′	′	′	′	′	′	′	′	H. M.	′	H. M.	′	
12·3	12·9	12·8	12·9	12·7	12·4	12·1	12·0	12·0	12·4	2 20	9·7	7 30	15·6	1
12·3	12·6	12·6	12·6	12·5	12·4	12·2	12·3	12·1	12·4	2 20	9·2	7 0	15·6	2
12·9	12·7	12·6	13·0	12·8	12·7	12·6	12·4	12·2	12·6	2 4	9·6	7 44	15·3	3†
12·5	12·7	12·7	12·9	12·8	12·6	12·4	12·6	12·5	13·4	2 8	10·6	6 30	14·9	4
12·8	12·6	13·1	13·1	13·1	12·9	12·9	12·8	12·6	12·2	2 24	10·3	7 14	17·0	5
11·2	11·1	11·9	12·2	12·3	12·8	12·8	12·6	12·2	12·3	13 46	9·2	6 24	14·4	6
13·0	13·0	13·0	12·9	12·9	12·9	12·9	13·1	12·9	13·1	2 20	10·4	7 52	16·2	7
13·0	13·0	12·5	12·1	12·4	12·0	12·1	12·1	12·0	12·7	3 16	9·6	7 30	15·0	8
13·0	12·9	12·8	12·7	12·5	12·4	12·3	12·2	12·1	12·6	3 0	9·8	7 20	15·6	9
12·8	12·9	12·7	12·7	12·6	12·5	12·3	12·3	12·3	13·0	2 24	10·9	6 10	16·1	10
13·1	13·1	13·0	13·0	12·8	12·7	12·4	12·3	12·7	12·8	2 16	10·9	7 20	15·3	11†
12·9	12·8	12·7	12·7	12·7	12·6	12·4	12·3	12·3	12·9	2 22	10·8	7 38	15·7	12
13·2	13·2	13·0	13·0	12·8	12·8	12·6	12·7	12·8	13·0	2 10	10·8	7 30	15·4	13
13·4	13·2	13·0	12·9	12·8	12·7	12·7	12·3	12·3	13·3	2 20	11·5	6 50	17·1	14
13·0	12·9	12·9	12·7	12·8	12·7	12·5	12·2	12·1	13·1	2 14	11·0	7 48	16·3	15
12·8	12·8	12·8	12·8	12·8	12·7	12·7	12·7	12·6	13·0	2 30	11·0	7 40	16·7	16†
13·1	13·3	13·3	13·3	13·0	13·0	12·9	12·9	12·8	13·1	3 16	10·3	7 16	15·9	17†
13·1	12·6	12·7	13·1	12·9	13·1	12·7	13·1	13·3	13·0	2 38	11·3	7 0	15·4	18
13·0	12·7	13·0	13·1	12·7	12·7	12·7	13·2	12·9	12·8	3 10	10·8	7 30	15·4	19
12·5	12·7	13·1	13·1	12·9	12·7	12·5	12·5	12·7	12·8	2 16	10·6	7 14	14·8	20
13·1	13·1	13·1	13·1	12·9	12·9	12·9	13·0	13·1	13·3	2 30	11·1	7 10	16·1	21
12·8	12·7	12·8	12·6	12·7	12·8	12·8	13·0	13·0	12·9	3 24	11·9	7 30	14·9	22
12·7	12·2	12·1	11·0	12·1	12·4	13·2	12·7	12·8	12·8	18 4	10·7	8 10	15·9	23
11·8	12·2	12·6	12·5	12·8	12·6	12·3	12·6	13·2	13·0	15 8	11·1	8 4	15·7	24
11·9	11·7	12·0	11·9	11·7	11·9	12·0	12·8	12·4	12·2	3 10	11·1	7 18	14·4	25
13·1	13·0	12·8	12·6	12·5	12·7	12·8	12·7	12·2	13·0	2 54	11·2	7 2	16·0	26
12·1	12·1	12·7	12·8	12·6	12·5	12·5	12·5	12·6	12·5	2 34	10·3	7 18	15·1	27
12·5	12·7	12·6	12·4	12·6	12·6	12·4	12·5	12·3	12·3	3 18	10·3	6 42	14·1	28
13·2	13·1	13·1	12·9	13·0	13·2	13·0	12·7	12·9	13·0	2 22	10·3	6 38	15·5	29
12·5	12·5	12·7	12·6	12·7	12·7	12·9	13·2	13·0	12·7	2 30	10·9	7 10	14·7	30
12·7	12·7	12·8	12·7	12·7	12·6	12·6	12·6	12·7	12·8					Mean.
12·9	12·9	12·9	12·9	12·7	12·6	12·5	12·4	12·4	12·9					Mean†

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13·2	13·4	13·4	13·5	13·5	13·5	13·4	13·4	13·4	13·5	2 54	11·6	7 30	16·2	1
13·2	13·3	13·3	13·4	12·9	12·7	12·7	12·7	12·9	13·3	10 50	12·3	7 30	16·1	2
13 3	13·4	13·4	13·5	13·4	13·5	13·4	13·5	13·5	13·2	2 30	11·0	8 10	14·6	3
13·5	13·5	13·5	13·5	13·2	13·2	13·0	12·9	12·9	13·3	2 30	11·6	7 30	15·5	4
13·6	13·6	13·6	13·5	13·5	13·5	13·4	13·5	13·5	13·5	2 30	12·1	7 14	15·1	5
13·5	13·5	13·4	13·3	13·2	13·2	13·2	13·2	13·2	13·6	3 6	12·6	7 30	15·5	6†
13 5	13·4	13·4	13·4	13·3	13·3	13·4	13·4	13·5	13·2	2 50	12·0	7 50	14·5	7
13·4	13·4	13·3	12·9	12·9	12·9	13·0	13·4	13·4	13·3	4 10	11·4	7 30	15·3	8
13·3	13·1	13·5	13·3	13·3	13·0	13·1	13·3	13·4	13·4	3 2	11·4	6 50	15·4	9
12·7	12·4	12·4	12·8	12·9	13·1	13·3	13·3	13·5	13·2	3 47	11·3	6 54	15·1	10
13·3	13·3	13·3	13·3	13·3	13·1	13·2	13·3	13·3	13·3	3 20	11·9	7 40	15·0	11
13·3	13·3	13·2	12·8	12·7	12·6	12·7	12·8	12·8	13·1	3 30	11·2	7 30	15·1	12
13·3	13·3	13·3	13·2	13·1	13·0	13·0	13·0	13·3	13·3	3 20	11·2	7 10	15·3	13†
13·2	13·2	13·2	13·2	13·2	13·1	13·1	13·0	13·3	13·1	3 10	12·2	7 30	14·9	14†
11·0	11·8	11·5	12·2	12·5	12·6	12·7	12·7	12·9	12·6	14 30	10·6	6 54	15·8	15
12·8	12·7	12·7	12·7	12·7	12·7	12·7	12·7	12·9	12·8	11 10	11·1	7 30	14·7	16
12·4	12·6	12·4	12·4	12·2	12·6	13·0	12·8	12·9	12·6	3 10	11·5	7 24	13·9	17
13·0	13·0	13·0	13·0	12·9	13·0	12·9	13·0	13·1	12·9	3 22	11·3	8 30	14·9	18
13·1	13·1	13·1	13·1	13·1	13·1	13·1	13·1	13·1	13·1	3 24	11·9	7 0	15·2	19
12·8	12·3	10·8	11·5	12·1	12·6	12·5	12·0	12·6	12·9	16 54	10·6	7 10	16·1	20
12·8	13·0	13·0	13·1	13·1	13·0	13·0	13·1	13·1	12·9	9 46	11·8	1 30	14·0	21
13·1	12·7	12·6	12·5	12·5	12·7	13·1	13·1	13·5	12·9	3 22	12·0	6 50	13·6	22
12·3	12·5	13·0	13·0	12·9	13·0	13·0	13·1	13·1	12·7	9 22	11·2	0 30	14·0	23
13·0	12·9	12·9	12·7	13 0	13·0	12·8	12·9	13·0	12·9	10 4	11·5	5 50	14·0	24
12·5	13·0	13·0	13·0	13·0	12·9	13·0	13·0	13·1	12·9	3 30	12·1	6 30	14·0	25
13·0	13·0	12·8	12·8	12·8	13·0	13·0	13·0	13·0	13·1	13 20	12·8	6 30	14·2	26†
12·1	12·9	12·9	12·9	12·9	12·9	12·9	12·9	13·1	12·9	3 30	11·6	9 10	13·7	27
13·1	13·0	12·9	12·9	12·9	12·9	13·0	13·1	13·3	13·1	3 30	12·1	6 30	13·9	28†
13·1	13·2	13·2	13·2	13·1	13·1	13·0	13·0	13·0	13·1	3 50	11·6	7 10	14·1	29
12·9	12·7	12·8	13·0	13·0	13·0	13·1	13·2	13·2	13·3	16 0	12·2	6 30	14·8	30
13·0	13·0	13·2	13·2	13·0	13·2	13·1	13·3	13·5	13·4	11 54	12·5	5 42	14·7	31
13·0	13·0	13·0	13·0	13·0	13·0	13·0	13·1	13·2	13·1					Mean.
13·2	13·2	13·1	13·1	13·1	13·1	13·1	13·1	13·2	13·2					Mean.†

* See footnote on page B 5.
† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

NOVEMBER. 0° PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	′	′	′	′	′	′	′	′	′	′	′	′	′	′	′
1	13·5	13·8	13·7	12·7	12·2	12·2	13·3	13·1	12·7	12·8	13·0	13·3	13·3	13·4	13·2
2	13·3	13·7	13·7	13·1	13·2	13·5	14·0	14·3	14·0	13·4	13·5	13·0	12·9	13·1	13·3
3	13·8	14·0	13·6	13·0	12·6	12·4	13·0	13·4	12·7	12·6	13·0	13·3	13·0	13·0	13·1
4	13·7	13·8	13·7	13·1	12·9	13·2	13·9	15·0	14·6	13·9	13·7	13·4	13·1	13·1	13·2
5	13·7	13·7	13·7	13·4	13·1	13·7	14·0	14·5	14·3	13·7	13·4	13·4	13·0	13·1	13·1
6†	13·4	13·6	13·2	12·7	12·8	12·9	13·4	13·9	13·1	12·7	12·9	12·9	13·1	13·3	13·4
7	13·7	13·8	13·6	14·1	14·7	14·9	15·3	15·1	14·2	13·5	13·2	12·9	13·1	13·3	13·1
8	13·4	13·5	13·3	13·1	13·4	13·9	13·9	13·8	13·5	13·5	13·9	13·9	13·8	13·6	13·5
9†	13·9	13·9	13·9	13·5	13·6	14·0	14·1	13·7	13·1	12·9	12·9	13·2	13·3	13·4	13·4
10†	13·9	13·9	13·9	13·2	12·7	12·7	13·1	14·2	14·2	14·0	13·9	13·7	13·5	13·5	13·3
11	14·0	14·1	14·2	13·6	13·0	12·9	13·0	13·3	13·3	13·9	13·9	13·6	13·3	13·1	13·3
12	13·6	13·9	14·2	13·8	13·2	13·4	13·4	13·2	13·1	13·2	13·8	13·7	13·4	12·7	13·0
13	13·6	13·8	13·9	13·5	13·3	13·6	13·6	13·6	13·2	13·1	13·1	12·9	12·9	12·9	12·9
14	13·5	13·7	14·0	13·8	13·6	13·5	13·4	13·5	13·1	12·9	13·0	13·1	12·8	12·2	12·5
15	13·5	13·4	13·4	13·0	14·0	13·2	14·1	13·5	12·8	12·8	12·9	12·9	12·9	12·8	12·9
16	14·0	13·9	14·2	13·9	14·2	13·5	13·4	13·2	12·9	13·1	13·1	12·5	12·8	12·6	12·2
17	13·8	13·9	14·0	13·6	13·4	13·4	14·0	14·4	13·5	13·2	12·7	12·2	12·3	12·1	12·5
18	13·9	14·2	14·3	13·9	13·7	13·3	13·7	13·6	13·1	13·3	13·6	13·2	12·9	12·8	12·9
19	13·9	13·9	13·9	13·4	13·1	13·1	13·4	13·7	13·4	13·4	13·2	13·2	12·9	12·7	12·4
20	13·9	13·9	14·1	13·9	13·6	13·4	13·5	13·4	12·9	13·2	13·5	13·3	12·9	12·9	13·0
21	13·8	13·9	13·9	13·7	13·2	12·9	13·3	13·6	13·3	13·3	13·8	13·2	12·9	13·2	13·2
22†	13·6	13·6	13·9	13·9	13·5	13·6	14·0	13·9	13·5	13·9	13·9	13·2	12·9	13·1	13·2
23	13·9	13·9	13·9	13·6	13·5	13·5	13·9	14·0	13·1	12·7	12·7	12·8	12·9	12·8	13·0
24†	13·6	13·9	14·3	14·0	13·7	13·5	13·9	14·1	13·6	13·3	13·4	13·2	13·2	13·2	13·2
25	13·9	14·1	14·3	13·9	13·3	13·2	13·7	13·3	12·9	13·0	13·6	13·2	12·9	12·9	13·0
26	13·9	14·1	14·2	13·6	13·3	13·2	13·2	13·3	13·2	13·4	13·8	13·7	13·0	13·1	13·1
27	14·0	14·0	14·4	14·1	13·4	12·9	13·2	13·6	13·4	13·4	13·4	13·4	13·3	13·1	13·2
28	13·9	14·4	14·4	13·7	12·9	12·7	12·9	13·0	13·8	13·4	12·9	12·9	12·8	12·7	12·9
29	14·3	14·6	15·3	14·6	13·4	12·9	12·9	12·1	12·1	12·4	12·5	12·4	12·9	12·9	12·9
30	13·5	13·5	14·1	13·8	13·2	13·1	13·3	13·5	13·3	13·1	12·9	12·8	12·9	13·3	13·1
Mean .	13·7	13·9	14·0	13·6	13·3	13·3	13·6	13·7	13·3	13·2	13·3	13·1	13·0	13·0	13·0
Mean† .	13·8	13·9	13·9	13·5	13·3	13·4	13·7	14·0	13·5	13·3	13·4	13·3	13·2	13·3	13·3

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1	13·7	13·9	14·5	14·2	13·8	13·1	13·0	13·3	12·9	13·5	13·8	13·0	12·7	13·0	13·0
2	13·2	13·7	14·1	14·1	14·0	13·8	13·7	13·4	12·9	12·5	13·0	13·6	13·2	13·2	13·1
3	13·6	13·8	14·0	13·9	13·6	13·6	14·0	14·6	14·1	13·6	13·5	13·4	13·3	13·1	13·1
4	13·4	13·6	13·7	13·8	13·6	13·3	13·1	13·1	13·0	12·9	13·1	13·0	13·6	13·2	13·1
5†	13·9	13·9	14·4	14·5	14·2	13·7	12·8	13·1	13·1	13·2	13·6	13·7	13·0	13·1	13·1
6	13·4	13·7	14·0	13·9	14·0	13·9	13·3	12·7	12·1	12·7	13·3	13·7	13·5	13·3	13·4
7†	13·9	14·0	14·1	13·9	13·9	14·0	13·9	13·6	13·6	13·4	12·9	13·4	13·7	13·4	13·3
8	13·8	13·9	14·0	14·1	14·8	14·8	13·9	13·2	12·5	12·5	13·1	14·0	13·9	13·6	13·7
9	15·2	15·0	14·9	14·9	14·5	14·0	13·3	12·3	11·4	10·8	11·7	12·6	12·5	12·4	12·6
10	14·0	14·5	14·5	14·5	14·1	13·3	12·8	12·4	12·3	12·7	13·6	13·9	13·9	13·3	12·9
11	14·0	14·5	14·6	14·0	13·1	12·1	11·8	11·8	11·9	11·9	13·0	13·3	13·0	13·1	13·2
12†	14·0	14·0	14·5	14·3	14·1	13·5	12·7	12·5	12·8	12·8	13·5	14·2	13·9	13·8	13·8
13	14·1	14·3	15·0	14·9	14·2	13·2	12·5	12·7	12·7	13·2	14·0	14·0	13·9	13·3	13·4
14	14·4	14·9	15·0	14·9	14·2	13·8	13·3	13·0	12·7	12·8	13·1	13·3	11·7	12·5	12·4
15	14·5	15·2	15·5	16·1	15·6	14·4	13·9	13·9	13·3	12·9	13·0	12·8	12·8	13·1	12·9
16	12·8	13·5	13·7	13·7	14·0	14·1	14·2	14·1	13·8	13·3	13·6	13·6	13·1	13·1	13·2
17	14·2	14·2	14·1	14·2	14·1	14·2	14·5	13·9	13·0	13·3	12·3	12·5	12·0	12·2	12·3
18	14·2	14·3	14·9	14·7	14·8	15·0	15·7	15·5	14·6	13·6	13·7	13·8	13·2	12·8	12·7
19	14·2	14·5	14·5	14·3	14·2	14·2	13·7	13·4	13·2	13·2	13·2	13·2	13·1	13·1	12·4
20	14·3	14·7	15·1	15·0	14·7	15·0	14·9	14·5	13·9	13·3	13·2	13·2	13·3	13·5	13·7
21†	14·5	14·7	15·3	15·3	14·5	14·2	14·2	14·2	13·7	12·9	13·1	13·3	13·5	13·3	13·4
22	14·2	14·3	14·3	14·2	14·3	14·2	14·3	14·2	14·1	13·6	13·3	13·2	13·2	13·4	13·4
23†	14·4	14·5	14·5	14·7	14·1	13·5	13·4	13·3	13·2	13·2	13·9	13·7	13·3	13·3	13·5
24	14·8	14·8	14·5	14·4	14·2	13·3	12·9	12·9	13·3	13·5	13·9	14·2	14·1	13·9	13·8
25	15·0	15·0	15·3	14·6	13·8	12·8	12·9	13·3	13·3	13·3	13·7	14·0	13·7	13·7	13·7
26	14·4	15·	15·0	15·4	15·2	14·7	14·3	14·0	14·1	14·2	14·3	14·3	14·0	13·8	13·8
27	14·4	14·5	15·1	15·7	15·2	14·9	14·7	15·2	15·4	14·7	14·2	13·6	13·4	13·6	13·8
28	14·1	14·3	14·4	14·4	14·4	13·6	13·4	13·6	14·4	14·3	14·6	14·7	14·5	14·3	14·4
29	14·4	14·9	15·4	15·4	14·4	13·6	13·8	14·4	13·9	13·5	13·3	13·4	13·5	13·8	13·8
30	14·0	14·3	14·7	15·1	14·9	14·9	14·8	14·9	15·3	15·1	14·4	13·7	13·6	13·8	13·8
31	13·9	14·4	14·5	15·2	15·3	15·3	14·9	14·7	14·4	14·5	14·9	14·7	14·2	13·8	14·0
Mean .	14·1	14·3	14·6	14·6	14·3	13·9	13·7	13·6	13·4	13·2	13·5	13·6	13·4	13·3	13·3
Mean† .	14·1	14·2	14·5	14·5	14·1	13·8	13·4	13·3	13·3	13·1	13·4	13·7	13·5	13·4	13·4

† Five international quiet days.

DECLINATION (WESTERLY), 1932.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

NOVEMBER. — 0° PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.			Minimum.			Date.
15	16	17	18	19	20	21	22	23		Time.		Mag.	Time.		Mag.	
′	′	′	′	′	′	′	′	′	′	H.	M.	′	H.	M.	′	
13·0	13·0	12·9	12·9	12·9	12·7	12·8	13·0	13·1	13·0	4	30	12·0	1	30	14·1	1
13·3	13·3	13·2	13·1	13·1	13·1	13·1	13·3	13·4	13·4	11	26	12·8	6	30	14·5	2
13·0	13·3	13·2	13·1	13·0	13·0	13·0	13·3	13·4	13·1	4	50	12·1	1	20	14·1	3
13·3	13·3	12·9	12·8	12·7	12·9	12·9	13·2	13·4	13·4	18	56	12·5	7	0	15·0	4
13·0	12·9	12·9	12·9	12·8	12·9	13·0	13·0	13·2	13·3	16	24	12·7	6	56	14·8	5
13·3	13·2	13·1	13·1	13·2	13·2	13·4	13·6	13·6	13·2	3	26	12·5	6	3)	13·9	6†
13·1	13·1	13·1	13·0	12·9	12·9	12·9	13·1	13·3	13·6	10	50	12·9	6	10	15·3	7
13·5	13·2	13·3	13·1	13·2	13·3	13·5	13·7	13·7	13·5	3	30	12·9	4	30	14·0	8
13·4	13·2	13·1	12·9	12·9	12·9	13·2	13·6	13·7	13·4	8	30	12·9	4	50	14·2	9†
13·2	13·2	13·1	13·0	13·1	13·1	13·3	13·5	13·9	13·5	3	40	12·5	7	30	14·7	10†
13·1	13·1	13·1	12·9	12·8	12·8	12·9	13·1	13·4	13·3	4	4	12·8	1	42	14·5	11
12·9	12·6	12·6	12·7	12·9	12·9	13·1	13·2	13·6	13·3	17	10	12·5	1	44	14·5	12
13·0	12·9	12·9	12·9	12·9	12·8	13·0	13·2	13·4	13·2	11	30	12·7	1	48	14·3	13
12·2	12·4	12·5	12·9	12·9	12·9	13·2	13·7	14·1	13·1	12	50	11·9	1	40	14·1	14
12·9	13·0	13·1	13·4	13·3	13·3	13·5	13·8	14·0	13·3	8	30	12·5	6	10	14·2	15
12·5	12·6	12·1	12·9	12·9	13·1	13·6	13·9	13·5	13·2	14	30	11·7	1	44	14·4	16
12·9	12·9	13·0	12·9	12·9	13·2	13·6	13·7	13·8	13·3	13	30	11·9	6	30	14·8	17
12·9	12·9	12·9	12·9	12·9	13·3	13·8	13·7	13·8	13·4	13	0	12·6	1	30	14·7	18
12·6	12·6	12·9	12·9	12·9	12·9	13·1	13·3	13·7	13·2	13	56	12·3	1	30	14·2	19
13·0	13·1	13·2	13·0	13·1	13·2	13·3	13·5	13·8	13·4	8	20	12·7	1	50	14·3	20
13·2	13·1	13·1	13·3	13·4	13·4	13·6	13·6	13·7	13·4	11	30	12·9	0	0	13·9	21
12·9	13·0	13·1	13·1	13·2	13·2	13·4	13·5	13·7	13·5	11	56	12·7	6	48	14·2	22†
13·2	13·3	13·4	13·2	13·2	13·3	13·4	13·4	13·5	13·3	9	24	12·5	6	30	14·2	23
13·3	13·4	13·4	13·4	13·3	13·4	13·5	13·6	13·9	13·5	11	12	13·1	2	0	14·4	24†
13·1	12·8	13·0	13·0	13·2	13·2	13·3	13·4	13·9	13·3	16	4	12·1	2	10	14·7	25
13·1	13·1	13·2	13·1	13·1	13·3	13·4	13·5	13·7	13·4	11	58	12·9	0	30	14·3	26
13·2	13·2	13·0	13·0	13·1	13·2	13·2	13·4	13·6	13·4	4	54	12·7	1	50	14·6	27
13·1	13·1	12·5	12·9	13·0	13·1	13·4	13·7	13·9	13·3	17	0	12·1	1	34	14·7	28
12·6	12·6	12·2	12·5	12·5	12·7	12·9	13·1	13·1	13·0	7	6	11·7	1	38	15·4	29
13·1	13·2	13·1	13·0	13·0	13·0	13·2	13·4	13·4	13·3	11	30	12·7	2	10	14·5	30
13·0	13·0	13·0	13·0	13·0	13·1	13·3	13·4	13·6	13·3							Mean.
13·2	13·1	13·1	13·0	13·1	13·1	13·3	13·5	13·7	13·4							Mean.†

DECEMBER.

13·1	13·3	13·3	13·0	12·9	12·9	12·9	13·0	13·2	13·3	11	20	12·7	2	10	14·7	1
13·1	13·1	13·2	13·2	12·9	13·0	13·1	13·4	13·7	13·4	8	56	12·4	2	10	14·4	2
13·2	13·1	13·2	13·0	13·3	13·2	13·3	13·4	13·3	13·5	13	0	12·9	7	0	14·8	3
13·2	13·1	13·2	13·2	13·1	13·2	13·4	13·5	13·6	13·3	9	7	12·7	1	40	14·0	4
13·2	13·2	13·1	13·1	13·1	13·2	13·1	13·3	13·5	13·4	6	14	12·6	2	10	14·6	5†
13·4	13·5	13·4	13·4	13·4	13·4	13·5	13·8	14·2	13·5	7	40	12·0	2	16	14·3	6
13·4	13·4	13·4	13·4	13·4	13·4	13·4	13·7	13·6	13·6	10	0	12·9	1	50	14·4	7†
13·6	13·4	13·5	13·3	13·5	13·5	13·9	14·5	15·0	13·8	8	50	12·4	23	30	15·7	8
12·9	12·7	12·9	13·0	13·0	13·2	13·2	13·5	13·7	13·1	8	54	10·5	0	0	16·7	9
13·3	13·3	13·2	13·5	13·5	13·2	13·0	13·2	13·7	13·5	7	30	12·1	2	30	14·9	10
13·2	13·3	13·3	13·2	13·2	13·3	13·3	13·5	13·6	13·1	6	30	11·6	1	30	14·8	11
13·7	13·6	13·7	13·6	13·7	13·7	13·8	13·9	14·0	13·7	6	50	12·3	2	0	14·5	12†
13.3	13·2	13·0	13·0	13·1	13·4	13·6	13·4	13·9	13·6	6	0	12·2	2	10	15·1	13
13·0	13·1	12·0	11·2	11·6	12·4	12·9	12·8	13.3	13·1	12	10	10·8	2	50	15·2	14
13·2	13·2	13·1	12·6	12·4	11·7	11·6	11·8	12·0	13·4	20	30	11·2	2	54	16·2	15
13·3	13·1	12·7	12·0	13·2	13·2	13·5	13·7	13·7	13·5	16	34	12·4	5	0	14·2	16
12·3	11·9	12·6	13·2	13·3	13·5	13·5	13·7	14·1	13·3	16	10	11·3	6	10	14·6	17
13·2	13·4	13·7	13·7	13·8	13·9	14·0	14·2	14·2	14·1	13	50	12·1	6	40	16·1	18
12·9	13·2	13·5	13·5	13·7	13·7	13·5	13·6	14·1	13·6	14	0	12·3	1	34	14·7	19
13·7	13·8	14·0	14·0	14·1	14·2	14·2	14·2	14·3	14·1	9	52	13·0	5	30	15·3	20
13·6	13·6	13·7	13·7	13·7	13·9	14·0	14·1	14·2	13·9	9	20	12·7	2	0	15·3	21†
13·5	13·4	13·3	13·5	13·8	14·0	13·9	14·2	14·2	13·8	10	24	13·2	2	0	14·5	22
13·5	13·6	13·7	13·7	13·7	13·7	13·8	14·3	14·5	13·8	8	0	13·2	2	0	14·7	23†
13·6	13·6	13·5	13.6	14·0	14·2	14·2	14·4	14·7	13·9	6	30	12·7	0	40	15·1	24
13·4	13·5	13·5	13·3	13·3	13·3	13·4	13·7	14·1	13·7	5	26	12·5	1	50	15·3	25
13·9	14·0	13·8	13·5	13·6	13·1	13·3	13·7	14·0	14·1	20	12	12·9	3	0	15·4	26
13·8	13·8	13·8	13·5	13·6	13·4	13·5	13·6	13·6	14·2	11	10	13·3	2	30	15·9	27
14·1	14·3	14·1	13·7	13·9	13·6	13·7	13·9	14·3	14·1	5	30	13·4	10	50	14·8	28
14·0	13·8	13·8	13·8	13·7	13·5	13·4	13·5	13·8	13·9	10	20	13·2	2	30	15·5	29
13·9	13·9	13·8	13·7	13·6	13·5	13·4	13·4	13·8	14·2	19	30	13·4	2	50	15·4	30
13·8	14·0	13·9	13·8	13·8	13·5	13·5	13·4	13·8	14·3	21	24	13·2	3	30	15·5	31
13·4	13·4	13·4	13·3	13·4	13·4	13·4	13·6	13·9	13·7							Mean
13·5	13·5	13·5	13·5	13·5	13·6	13·6	13·9	14·0	13·7							Mean.†

* See footnote on page B-5.
† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

JANUARY. 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	344	342	340	346	352	365	364	368	365	360	356	340	339	341	338
2	346	349	349	347	345	337	340	350	347	335	336	340	344	337	335
3	343	339	339	340	342	348	352	358	353	348	349	345	340	336	338
4	345	346	347	347	352	358	369	370	366	356	353	351	348	349	348
5	355	358	361	363	364	371	375	376	374	368	364	359	358	358	347
6	344	348	354	360	366	371	378	380	379	373	372	373	369	361	356
7	356	356	360	364	369	377	386	380	377	368	364	361	355	356	357
8	345	345	351	358	371	384	401	391	377	366	363	361	357	343	353
9	350	349	349	348	350	362	365	367	360	350	347	336	337	340	339
10	361	357	349	347	353	364	374	379	376	368	359	354	346	346	350
11	347	346	349	351	358	363	367	350	353	343	345	349	348	349	337
12	350	346	349	355	366	376	376	382	371	359	355	346	346	342	345
13	341	342	353	353	359	362	363	353	345	340	341	343	349	353	347
14	345	344	350	350	349	355	362	359	355	351	350	345	344	327	316
15	353	351	355	362	369	376	389	385	358	337	334	336	348	351	348
16	348	348	349	348	346	349	355	366	369	360	353	346	354	356	356
17	355	355	355	357	364	371	377	373	363	354	354	356	355	349	344
18†	350	352	357	361	360	359	367	374	368	353	344	345	348	353	353
19†	353	353	355	357	364	374	380	373	364	368	358	363	364	360	360
20†	356	359	363	365	367	377	381	388	385	375	369	366	359	355	349
21†	361	362	368	374	378	392	397	391	387	383	380	376	371	367	362
22†	369	372	375	379	382	385	385	380	380	379	380	381	374	368	367
23	364	369	378	387	392	399	**405**	400	394	386	383	379	377	376	376
24	364	367	376	381	386	387	381	377	377	380	378	376	367	360	359
25	368	373	382	391	387	391	385	382	377	377	367	338	343	347	348
26	346	351	354	361	363	365	363	357	359	349	336	334	339	345	349
27	346	347	347	358	365	378	382	382	378	363	347	346	344	333	335
28	338	342	351	352	353	363	368	365	352	346	336	331	323	**305**	310
29	343	343	345	351	357	365	376	378	378	374	364	352	345	344	345
30	348	354	357	360	362	367	371	373	371	365	355	348	345	345	348
31	355	357	359	359	358	371	377	378	370	363	347	339	344	348	350
Mean . .	351	352	356	359	363	370	**375**	374	369	361	356	352	351	348	347
Mean†. .	359	361	365	368	371	378	**383**	382	377	370	366	367	363	361	358

FEBRUARY.

1	350	350	354	351	349	349	353	362	369	368	363	359	355	353	351
2†	349	352	354	357	363	365	371	375	377	379	371	366	361	356	352
3	373	379	391	384	374	370	369	379	366	345	330	346	326	325	**292**
4	338	337	329	342	351	359	361	354	349	347	339	321	306	322	318
5	335	333	340	346	341	343	339	331	331	327	334	340	339	343	337
6	335	340	342	344	349	351	356	357	351	341	338	337	324	323	333
7	336	337	340	345	350	355	355	355	348	336	332	336	341	343	337
8	349	351	350	354	358	363	364	365	363	357	346	331	326	328	338
9	340	343	345	352	357	363	371	369	360	355	353	338	331	334	339
10	346	347	347	351	364	377	385	378	373	373	359	344	341	341	339
11	335	335	335	340	343	343	353	362	369	364	358	354	348	348	337
12	338	335	334	334	346	355	359	367	367	364	351	351	343	340	334
13	356	345	346	348	347	352	354	355	358	354	349	335	336	335	325
14	339	340	341	340	339	340	340	346	347	349	342	332	328	331	333
15	348	349	346	349	362	369	368	371	371	366	359	353	348	338	335
16†	345	347	350	351	355	360	366	371	368	367	363	360	357	351	349
17†	349	350	353	357	361	368	371	373	369	363	358	356	353	353	353
18	356	358	362	367	374	383	386	388	383	377	375	372	371	371	371
19	352	356	361	364	372	368	379	383	386	380	375	371	372	370	368
20	374	366	372	387	394	397	399	393	383	344	351	352	353	352	351
21	344	346	352	366	374	379	375	377	374	369	352	347	347	337	330
22	351	352	354	358	366	378	386	389	384	353	361	362	352	332	319
23	344	342	358	356	360	363	368	369	366	366	363	360	359	362	362
24	344	347	350	365	370	380	376	376	361	356	342	319	315	329	342
25	349	351	360	364	371	363	369	375	371	361	355	345	342	343	346
26	355	355	359	364	369	381	390	393	382	372	361	351	350	350	350
27†	352	355	357	359	367	379	395	401	399	387	380	376	367	361	360
28†	360	362	363	364	367	374	379	380	378	372	367	365	366	360	358
29	356	356	361	369	377	384	391	394	387	376	369	364	361	362	362
Mean .	348	349	352	356	361	366	370	**372**	369	361	355	350	345	345	**342**
Mean† .	355	357	359	360	365	371	379	**382**	380	375	368	365	361	356	354

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

JANUARY. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
338	341	346	334	335	336	347	345	345	347	7 10	371	18 10	327	1
338	331	334	352	337	335	338	341	348	**341**	17 42	366	16 30	321	2
338	339	338	348	358	349	348	345	341	345	18 18	363	12 58	331	3
346	345	346	346	346	355	351	349	351	352	6 30	372	18 32	341	4
347	346	348	355	349	342	343	349	342	357	6 12	376	19 58	340	5
352	354	355	353	353	352	350	354	354	361	6 38	380	0 0	343	6
354	351	355	353	360	359	360	345	346	361	5 38	388	22 10	339	7
341	341	333	324	326	340	338	336	342	354	5 54	**410**	18 20	313	8
347	341	331	352	342	342	346	346	348	348	23 36	369	16 58	331	9
345	354	336	342	317	343	344	345	347	353	7 10	379	16 52	331	10
344	342	339	353	340	334	350	334	335	347	5 50	368	20 0	322	11
339	329	331	351	341	340	341	345	344	351	7 4	385	16 30	323	12
341	338	338	337	341	344	342	349	330	347	6 14	363	15 52	332	13
318	331	340	342	342	344	346	344	351	344	6 3	363	14 16	313	14
345	346	347	341	357	362	350	347	347	354	6 10	392	10 20	330	15
352	347	347	329	331	343	349	354	354	351	7 42	371	18 30	324	16
340	341	354	346	344	348	349	350	352	354	6 30	380	15 35	335	17
354	348	347	347	350	353	354	351	353	354	6 56	375	10 30	342	18†
361	362	360	361	357	358	353	355	357	361	5 46	381	0 30	350	19†
344	341	348	352	356	357	355	357	359	362	7 4	389	15 40	337	20†
362	362	360	362	365	363	363	363	365	372	5 30	399	17 16	358	21†
366	365	359	359	357	356	357	361	360	371	5 8	387	20 44	354	22†
370	366	366	367	366	362	365	362	367	**377**	6 22	406	21 30	359	23
354	336	335	341	356	357	357	358	367	366	4 14	390	16 10	331	24
337	318	305	329	350	347	338	339	342	356	5 30	397	16 51	296	25
345	340	343	341	343	342	345	362	345	349	22 12	373	10 30	328	26
315	325	315	329	333	335	341	334	337	346	5 58	384	15 12	**292**	27
326	326	334	352	347	335	342	342	349	341	18 22	374	13 46	295	28
349	348	351	351	348	347	350	350	347	354	8 30	380	1 30	340	29
350	349	347	349	349	348	351	351	353	355	6 26	374	16 59	342	30
339	342	341	343	346	346	349	348	349	353	7 18	379	10 25	333	31
345	343	**343**	347	348	347	349	349	350	354					Mean.
357	355	**354**	355	356	357	355	356	358	364					Mean.†

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352	351	350	353	350	349	353	352	347	351	8 2	369	23 8	345	1
352	352	351	351	350	353	359	362	369	361	8 40	379	19 30	347	2†
306	311	338	316	328	341	332	350	350	346	2 15	394	14 18	**284**	3
339	312	347	328	341	326	335	331	331	336	5 40	365	11 42	301	4
337	331	345	325	322	331	334	335	335	**335**	17 6	349	18 32	318	5
349	334	337	344	340	336	335	343	338	340	5 47	358	12 0	318	6
332	337	339	340	350	351	347	339	343	343	19 38	357	14 47	327	7
333	337	354	342	340	351	341	335	338	346	6 2	366	11 30	316	8
341	340	344	341	350	340	337	341	346	347	5 54	372	11 30	327	9
327	355	328	345	359	345	341	331	333	351	6 6	388	16 58	314	10
347	340	364	335	350	337	339	335	337	346	16 56	376	18 10	322	11
331	340	353	335	335	341	346	337	358	346	7 26	371	13 50	324	12
315	324	337	343	328	326	330	339	341	340	7 38	358	14 54	313	13
343	339	341	344	342	345	349	347	344	341	20 20	356	12 10	325	14
339	336	337	340	346	350	346	344	345	351	7 10	372	13 40	331	15
349	350	350	350	352	351	347	346	349	354	6 56	376	0 6	344	16†
353	354	355	355	354	354	353	354	356	357	6 40	374	0 10	349	17†
369	371	369	366	364	361	359	361	353	**369**	6 46	389	23 50	351	18
364	368	365	361	361	368	366	368	370	369	7 46	389	0 22	352	19
337	321	329	328	356	349	342	339	343	358	6 24	**406**	15 44	317	20
333	342	343	344	347	349	351	351	350	353	4 58	381	14 30	325	21
329	319	351	351	339	341	343	344	350	353	7 8	392	15 52	311	22
363	363	360	357	342	363	333	333	340	356	20 0	377	18 46	324	23
342	341	342	353	354	345	347	351	340	350	5 14	385	11 40	308	24
348	340	346	341	346	352	349	350	352	354	7 20	377	11 22	337	25
349	354	348	347	350	355	352	351	349	360	6 46	397	17 48	345	26
359	356	352	355	358	358	359	359	360	367	7 14	402	17 10	351	27†
358	355	355	356	357	357	356	355	356	363	7 18	382	16 22	351	28†
360	360	361	360	359	359	359	361	361	367	7 10	394	0 4	354	29
343	343	348	345	347	348	346	346	348	352					Mean.
353	352	**351**	351	352	352	352	352	355	361					Mean.†

*The daily mean values of horizontal force derived from 24 hourly values have been corrected for progressive change by 1/48th of the difference between the values of the initial and terminal hours.

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

MARCH. 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1†	363	365	369	378	385	395	403	406	399	388	379	373	370	369	367
2	368	370	377	386	398	413	418	425	426	418	409	403	403	400	405
3	336	338	345	353	357	362	366	364	357	329	307	303	310	309	311
4	357	337	343	345	350	361	361	361	360	355	343	323	319	328	333
5	330	336	336	349	358	359	357	357	345	336	332	338	340	339	338
6	346	344	336	339	350	363	359	362	357	350	327	325	321	319	321
7	345	345	348	359	367	371	372	371	361	345	339	337	345	339	341
8	350	337	342	333	358	357	355	361	350	342	337	335	343	343	342
9	340	339	340	339	355	363	365	366	367	358	351	349	341	345	338
10	331	337	339	350	360	368	365	361	353	340	326	312	312	331	332
11	337	333	344	340	362	361	355	355	355	344	345	331	331	328	326
12	335	339	342	351	357	363	367	361	357	346	342	337	336	336	327
13	349	349	353	358	373	389	397	391	377	370	358	349	347	346	347
14	343	349	352	363	378	387	388	383	369	359	343	351	348	351	349
15†	344	347	354	366	376	388	390	385	378	369	357	352	350	346	345
16†	361	364	368	378	388	399	407	407	399	386	377	366	361	359	358
17	354	353	354	361	372	384	396	397	390	381	369	361	358	357	357
18	364	374	374	389	402	403	394	388	381	375	369	366	359	363	332
19	339	339	343	345	355	357	363	363	355	350	344	344	346	348	348
20	347	347	352	355	365	377	385	383	382	372	362	356	353	346	340
21	352	357	348	361	365	373	377	373	366	356	351	340	325	312	523
22	347	343	344	342	358	362	354	354	347	347	333	327	324	324	334
23	343	341	349	346	355	370	372	371	367	353	340	343	346	345	350
24	348	344	345	354	363	376	385	381	377	371	360	358	359	356	350
25†	354	354	351	361	370	379	383	380	371	364	353	348	351	351	347
26†	351	354	359	370	386	398	402	396	388	378	368	358	353	353	352
27	355	356	358	368	379	392	395	395	389	377	366	360	363	365	366
28	358	354	354	353	365	381	382	380	373	364	345	335	339	345	322
29	310	321	329	332	331	340	344	340	332	313	302	282	279	303	316
30	333	324	329	346	355	353	333	352	352	334	333	335	334	323	314
31	226	318	320	315	329	328	313	324	298	301	283	250	270	293	313
Mean .	346	345	348	354	365	373	374	374	367	357	347	340	340	341	340
Mean† .	356	358	361	372	382	393	398	396	388	377	367	359	357	355	353

APRIL.

1	324	326	335	338	352	365	366	361	351	333	327	330	335	336	339
2	338	329	337	331	342	351	352	331	321	317	310	286	289	301	308
3	332	327	334	326	353	357	359	351	343	337	329	313	308	312	318
4	326	330	336	343	360	369	364	362	356	337	333	327	328	319	326
5	335	335	335	329	353	352	339	334	342	341	341	337	328	330	321
6	331	336	328	319	341	352	365	358	347	342	340	340	339	337	335
7	337	336	331	335	358	361	363	340	347	345	317	317	307	303	334
8	345	345	331	335	345	350	354	355	357	344	344	336	336	335	338
9	335	333	336	340	361	373	371	371	364	362	355	336	323	328	328
10	339	343	346	356	365	372	369	363	359	356	356	346	340	336	333
11	337	336	340	348	362	375	379	379	370	358	353	349	347	346	344
12†	341	343	341	343	350	360	365	365	363	362	361	357	349	344	342
13	349	349	351	355	370	385	392	394	395	390	396	393	389	381	371
14	329	333	335	341	350	363	374	375	368	346	351	345	335	332	331
15	343	340	342	338	347	361	373	365	380	376	366	349	343	341	342
16	345	347	346	347	355	365	365	368	369	364	359	337	335	337	341
17	352	355	350	355	365	375	383	379	361	345	344	344	343	341	343
18	356	352	357	349	355	367	376	365	357	355	338	321	326	332	326
19†	346	346	343	352	364	377	381	381	377	373	366	363	360	360	360
20†	350	350	347	351	361	380	397	395	380	370	361	355	352	351	351
21†	355	355	355	359	364	370	379	381	382	377	371	365	359	356	354
22	357	357	361	374	390	401	417	415	403	407	402	385	367	351	339
23	351	352	352	351	364	382	393	393	385	376	332	319	299	312	318
24	351	347	335	335	331	346	349	344	355	354	327	309	341	348	342
25	359	338	343	343	349	363	373	359	338	334	325	335	332	335	336
26	336	340	352	347	358	358	365	374	367	355	327	318	315	326	326
27	348	344	341	347	365	357	369	364	348	344	338	347	344	342	334
28	340	342	335	338	352	360	372	371	374	365	362	361	359	351	340
29	339	340	339	344	353	361	371	363	356	355	357	353	349	348	344
30†	346	347	346	348	344	349	349	358	362	359	341	346	346	346	345
Mean .	342	342	342	345	356	365	371	367	363	356	348	341	337	337	337
Mean† .	350	351	348	352	358	369	376	377	374	365	360	357	353	351	335

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

MARCH. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
365	365	364	363	362	365	367	371	371	375	6 42	407	19 10	361	1†
402	392	370	352	349	338	335	353	333	**384**	8 6	**427**	21 14	325	2
334	335	339	336	357	354	338	341	350	339	6 38	369	11 14	299	3
331	339	339	331	356	349	334	332	335	342	5 46	361	12 16	314	4
330	325	324	339	345	346	361	365	351	343	21 44	370	16 38	312	5
326	340	337	341	348	347	332	337	347	341	5 14	369	11 49	311	6
347	345	331	325	350	343	339	339	336	348	6 36	375	18 9	318	7
341	332	335	337	330	334	342	347	338	342	6 46	362	19 0	327	8
341	339	354	362	343	335	367	359	339	349	21 10	378	23 36	327	9
330	335	346	322	333	355	337	345	344	340	20 10	377	11 52	303	10
334	340	335	341	340	333	341	339	334	341	5 30	364	0 36	319	11
327	334	337	339	348	345	348	349	349	345	5 54	369	15 10	324	12
342	333	330	331	330	333	348	343	340	353	5 48	440	17 46	328	13
339	343	341	336	337	341	344	346	344	353	6 8	391	18 22	330	14
345	343	346	347	350	351	355	357	358	359	6 2	392	16 10	341	15†
357	358	359	357	349	355	350	352	351	369	6 58	410	19 8	344	16†
357	357	357	353	354	360	355	356	360	365	6 50	598	18 34	349	17
334	326	324	334	362	335	327	333	338	359	4 38	412	16 46	317	18
346	349	351	351	351	348	345	343	343	349	8 12	367	1 2	337	19
342	345	348	351	353	356	357	357	356	358	5 38	389	14 20	330	20
332	349	347	336	348	345	365	357	360	351	5 44	380	13 12	307	21
331	337	343	342	333	350	339	336	341	341	4 38	371	12 54	313	22
347	342	342	342	342	340	340	343	349	349	6 20	376	10 6	335	23
348	343	344	346	350	348	345	349	356	357	6 30	388	1 42	339	24
347	347	347	347	347	348	348	352	351	356	6 8	384	17 14	344	25†
352	351	349	351	350	353	355	355	354	364	6 4	403	17 38	346	26†
363	358	352	353	358	354	361	358	357	367	6 36	395	17 50	349	27
320	297	286	273	275	303	299	306	308	333	5 38	387	17 58	268	28
306	323	307	321	317	322	340	326	329	320	20 36	354	11 41	276	29
300	309	312	345	327	311	321	320	324	330	4 38	364	14 56	297	30
316	318	317	315	328	333	328	327	324	**312**	19 47	341	11 18	**247**	31
340	340	**339**	339	343	343	344	345	344	349					Mean.
353	353	352	352	**351**	354	354	356	353	365					Mean.†

APRIL.

328	319	327	329	333	333	345	344	339	339	5 33	369	16 4	312	1
316	332	332	323	333	333	323	330	335	**325**	5 38	361	10 44	**288**	2
321	327	330	329	336	335	335	331	327	333	5 30	364	11 42	303	3
326	329	332	334	329	339	338	335	331	338	5 5	372	13 0	314	4
323	322	336	331	326	330	334	336	333	335	4 50	358	14 6	313	5
334	338	339	324	334	339	343	354	338	341	5 54	366	18 22	322	6
311	312	319	326	343	326	322	329	329	331	5 46	370	10 30	296	7
347	334	332	333	331	326	322	327	330	339	6 35	363	20 40	320	8
330	330	339	345	355	340	333	337	338	345	4 54	377	12 26	320	9
333	339	340	340	337	333	344	338	335	347	4 36	373	20 6	330	10
344	341	341	340	337	340	339	338	339	349	6 2	381	19 2	335	11
344	345	343	345	340	341	341	342	346	349	6 2	367	18 58	335	12†
365	350	317	328	334	329	343	330	335	362	9 6	402	17 8	309	13
316	322	327	333	345	341	341	342	342	343	7 24	381	15 30	313	14
342	339	337	341	343	340	355	352	349	350	8 16	382	19 58	331	15
343	338	344	342	343	346	350	351	358	350	8 15	371	11 12	330	16
343	344	343	349	358	360	351	351	357	354	6 2	385	12 35	325	17
328	319	325	349	341	341	338	343	353	344	6 20	380	11 0	314	18
355	355	353	356	351	352	350	352	352	359	6 40	382	2 8	341	19†
348	349	349	351	350	351	354	354	354	359	5 58	401	2 10	345	20†
353	348	349	351	352	353	353	355	356	361	7 52	384	15 56	348	21†
323	317	330	339	341	341	342	346	349	**365**	6 10	**420**	16 6	312	22
334	330	329	328	339	335	341	363	354	347	6 40	399	11 58	289	23
347	337	337	336	350	353	345	345	359	342	19 26	368	10 48	301	24
344	335	336	341	339	329	331	335	339	341	6 8	377	11 38	323	25
334	333	329	349	334	337	337	338	352	342	6 38	380	11 30	309	26
331	333	332	336	354	347	337	337	339	344	6 38	370	9 46	329	27
337	333	343	343	344	354	354	345	341	351	7 44	377	15 42	331	28
343	341	342	341	354	343	341	341	345	349	6 4	374	1 40	339	29
345	345	349	341	343	348	347	349	350	347	8 10	363	18 4	338	30†
336	335	336	338	342	340	341	342	343	346					Mean.
348	348	348	348	**346**	347	347	348	350	355					Mean.†

*See footnote on page B-17.

†Five international quiet days.

MAY (Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.) 37000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	350	347	353	355	360	365	369	374	369	369	370	367	363	361	360
2	360	367	358	361	373	380	395	401	398	395	383	371	358	350	351
3	339	339	341	347	342	343	345	356	353	353	325	316	323	336	337
4	347	344	353	361	365	374	388	393	379	368	357	348	347	345	348
5	347	347	335	344	360	373	384	369	363	360	355	347	344	340	334
6	340	341	340	342	344	345	346	355	358	355	339	340	341	340	337
7	344	344	344	342	349	365	376	376	371	361	363	361	355	349	347
8†	346	346	353	353	359	372	378	381	381	377	370	363	355	350	351
9†	351	352	359	367	378	392	399	398	394	389	379	370	364	358	357
10	366	373	379	384	399	412	418	410	408	401	394	385	380	377	363
11	353	368	364	371	381	403	413	411	413	394	380	370	358	357	352
12	354	357	359	362	370	378	372	380	383	378	366	356	354	351	346
13	360	363	365	363	366	381	381	382	373	367	365	367	361	360	355
14	363	363	359	359	373	385	393	392	389	375	365	367	369	364	355
15	355	354	352	359	369	378	382	382	373	355	352	349	338	315	325
16	354	355	359	367	369	356	367	341	356	351	350	342	349	349	338
17	351	352	251	355	367	378	381	371	365	347	345	354	355	350	352
18†	352	353	357	363	366	374	378	378	378	372	365	360	353	349	344
19†	355	356	359	362	369	378	383	381	373	368	365	359	355	351	348
20†	353	356	357	359	367	373	380	380	376	369	363	361	361	359	356
21	368	372	377	384	391	401	411	419	412	379	357	338	340	345	334
22	355	354	357	367	377	387	384	374	361	357	349	339	334	327	331
23	353	352	353	357	364	371	376	375	380	377	374	367	363	359	349
24	360	358	357	355	350	360	367	364	363	363	362	348	348	344	345
25	357	357	350	358	373	369	367	372	365	357	363	357	348	344	337
26	353	348	353	358	362	368	376	372	361	363	359	360	357	347	346
27	355	358	358	363	366	372	367	360	360	354	346	340	338	341	348
28	354	365	365	369	364	364	369	380	376	366	361	359	349	343	345
29	355	353	358	367	370	373	386	374	365	359	361	346	305	274	266
30	294	287	298	292	246	245	233	249	271	276	287	294	283	289	285
31	322	325	327	321	322	327	336	335	333	331	328	319	319	325	322
Mean .	351	352	353	357	362	369	374	374	371	364	358	352	347	343	341
Mean† .	355	356	360	363	370	380	385	385	382	376	369	363	358	353	351

JUNE.

1	327	329	332	330	347	355	364	364	360	351	342	339	338	337	339
2	340	346	348	359	360	362	362	363	361	352	352	351	349	344	340
3†	341	341	357	370	384	392	389	383	374	369	363	353	349	345	347
4†	347	351	353	360	369	378	383	381	379	377	373	365	357	352	348
5	354	357	365	377	385	391	386	382	382	376	371	364	363	361	365
6	361	365	368	374	383	392	392	386	383	374	370	369	365	361	361
7	355	360	370	378	395	401	408	412	407	392	377	370	358	355	354
8	357	351	363	374	385	386	394	390	387	370	363	358	349	336	346
9	351	356	356	351	367	377	375	377	378	367	354	352	342	337	350
10	350	353	359	362	361	354	370	372	362	357	349	336	330	333	338
11	344	346	351	359	367	373	376	375	370	361	336	337	330	324	329
12	349	343	345	350	365	377	382	385	380	373	370	364	356	347	346
13	353	349	355	359	365	367	367	368	370	366	362	346	343	335	338
14	355	354	361	370	379	386	389	387	383	378	368	363	360	357	357
15†	358	360	367	372	376	377	378	376	375	378	378	369	363	360	358
16	355	358	367	377	387	394	397	394	391	388	379	369	364	361	361
17	358	362	373	379	382	389	395	397	392	386	371	366	357	362	366
18	368	373	377	382	382	392	390	386	389	382	375	363	359	358	357
19	361	357	359	365	372	387	398	401	401	398	381	375	366	370	373
20	363	367	371	383	393	405	412	406	404	398	383	361	370	354	344
21	346	343	355	367	369	376	383	391	396	399	394	377	367	362	360
22	359	360	359	358	360	359	356	361	362	352	350	347	345	347	349
23	350	349	356	365	369	378	376	367	367	360	353	351	348	349	345
24	349	348	353	365	373	384	395	398	398	391	379	369	365	359	359
25	360	359	363	367	374	385	391	400	402	397	389	387	379	372	369
26	361	360	365	372	383	391	395	399	391	378	384	375	365	364	365
27†	359	360	367	372	378	389	394	390	383	376	365	350	359	357	356
28†	357	361	369	373	383	395	400	399	394	391	385	371	365	367	370
29	367	372	380	388	397	400	399	403	403	387	375	368	362	364	364
30	365	367	374	383	390	398	403	401	402	398	389	376	357	357	357
Mean .	354	355	361	368	376	383	387	387	384	377	369	362	356	353	354
Mean† .	354	356	364	371	379	387	390	387	381	379	373	363	359	356	355

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

MAY. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
360	361	355	356	356	353	355	359	357	360	6 42	375	1 0	345	1
353	354	353	353	355	352	350	340	339	364	5 42	403	22 30	333	2
337	334	341	341	337	341	345	345	342	340	6 58	350	11 16	313	3
347	347	339	337	337	339	343	340	339	353	6 24	395	17 58	327	4
331	317	310	331	346	340	348	341	345	346	6 0	390	16 33	305	5
340	341	341	344	353	351	344	339	339	344	7 38	**362**	10 14	328	6
347	348	343	349	349	347	351	352	349	354	6 2	378	2 42	339	7
352	353	357	358	357	352	349	348	348	352	7 42	383	0 30	343	8†
359	359	359	359	358	357	359	360	361	369	6 2	401	0 40	349	9†
360	362	362	364	362	370	375	373	359	**380**	6 6	420	19 18	355	10
341	335	348	352	348	351	350	350	350	367	6 30	419	15 46	329	11
348	350	352	354	352	352	350	354	357	360	7 40	385	13 52	343	12
354	358	359	357	367	369	383	359	361	365	5 38	385	14 50	352	13
351	346	350	355	357	358	359	362	358	365	5 12	398	15 56	344	14
335	340	342	351	357	350	350	353	357	353	6 36	384	13 10	310	15
339	347	347	347	349	350	349	349	349	351	3 26	376	13 46	335	16
347	349	349	350	350	347	347	351	352	355	5 34	385	9 44	339	17
344	348	346	347	352	351	351	352	353	358	7 56	380	14 10	341	18†
349	349	348	349	351	352	352	352	353	359	6 40	385	15 42	346	19†
355	358	358	361	365	365	365	368	368	364	6 38	382	0 2	353	20†
338	336	334	338	336	343	343	348	353	362	7 4	**421**	14 0	330	21
330	329	349	347	347	345	347	349	351	352	4 44	388	15 38	324	22
344	341	339	339	339	336	347	365	366	358	22 24	385	19 58	334	23
347	349	353	355	357	359	357	357	356	356	6 38	369	11 16	342	24
338	339	348	345	341	340	345	349	351	353	4 0	377	16 14	337	25
351	353	353	349	347	359	351	349	352	356	6 0	377	13 0	342	26
346	348	358	360	355	358	357	361	352	355	5 12	374	12 22	334	27
345	348	351	365	355	354	347	343	350	358	6 52	382	21 40	337	28
266	267	305	304	288	280	288	297	300	324	6 30	387	13 18	252	29
287	295	299	297	297	298	292	294	315	**284**	22 56	320	6 6	**223**	30
315	319	329	332	327	321	323	326	324	325	6 38	338	15 20	314	31
341	341	345	347	347	347	347	348	349	353					Mean.
351	352	352	353	355	353	353	353	353	362					Mean.†

JUNE.

335	333	333	336	335	335	337	339	337	**341**	7 34	370	1 16	327	1
337	341	344	340	342	347	343	340	339	348	5 22	367	15 0	337	2
347	344	343	342	342	340	343	343	343	356	4 50	394	0 30	338	3†
347	347	350	351	351	351	352	352	351	360	6 16	385	0 0	347	4†
366	365	365	365	364	361	361	361	360	369	5 20	392	0 6	354	5
361	363	363	364	363	360	361	364	360	369	5 30	396	23 44	354	6
352	352	354	351	356	357	359	351	353	370	7 26	**419**	15 18	345	7
347	339	346	350	351	358	361	345	346	360	6 12	398	15 38	331	8
351	319	346	342	342	341	342	349	351	354	5 36	384	13 16	333	9
339	337	343	341	350	350	348	344	342	349	6 36	379	12 22	324	10
335	333	345	345	347	348	348	350	354	349	6 36	379	12 24	322	11
350	347	346	350	350	349	348	350	350	357	7 0	389	1 0	343	12
345	344	345	345	347	349	352	354	356	353	8 26	374	13 30	334	13
357	357	357	357	357	360	358	356	356	365	6 8	391	0 34	353	14
357	357	357	357	357	357	357	357	354	365	9 20	383	23 30	354	15†
359	358	360	369	371	371	371	363	360	372	5 30	399	0 0	355	16
365	364	366	369	370	369	365	363	367	373	6 30	400	10 52	354	17
353	355	357	357	360	362	364	367	366	370	5 6	397	14 44	353	18
371	370	372	375	373	369	363	359	366	375	7 20	404	0 46	357	19
326	320	321	321	**320**	322	336	339	343	361	6 10	415	17 18	**310**	20
360	355	353	355	360	359	357	353	359	367	9 3	403	1 14	342	21
352	355	355	357	359	357	352	351	350	355	7 46	368	11 50	344	22
344	346	350	351	352	351	351	353	351	355	5 14	383	14 56	344	23
359	359	359	357	353	356	352	358	359	367	8 14	402	0 30	348	24
376	376	365	359	365	363	360	361	363	374	7 30	405	17 46	355	25
365	364	359	359	363	363	358	360	361	371	6 58	404	18 44	356	26
357	359	361	359	359	358	358	357	357	366	5 56	397	12 58	356	27†
372	370	369	367	367	367	369	369	369	375	6 44	402	0 0	357	28†
366	367	369	370	371	371	370	367	364	**377**	7 24	407	12 10	361	29
364	363	359	356	360	361	365	367	366	374	5 40	405	18 0	355	30
354	353	354	354	355	355	355	355	355	363					Mean.
356	355	355	354	354	353	355	354	**353**	364					Mean.†

*See footnote on page B-17.

†Five international quiet days.

JULY.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)
37000γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	365	366	370	372	374	377	382	388	387	381	374	367	363	361	359
2	368	370	375	393	408	417	424	424	410	398	391	379	369	366	360
3†	362	364	366	373	383	395	404	405	399	390	383	374	367	364	364
4	373	374	377	386	397	395	402	404	398	396	395	388	382	383	379
5	382	390	394	401	418	425	425	425	418	409	401	393	383	377	379
6	368	365	373	376	381	376	363	339	334	322	325	321	328	328	313
7	356	354	359	369	373	378	369	358	355	343	345	345	346	344	342
8	344	345	352	360	379	383	390	391	385	364	355	346	346	346	341
9	353	351	359	367	376	379	386	389	387	380	370	363	349	348	342
10	351	352	360	375	383	390	385	396	396	381	361	352	350	349	350
11	358	357	363	366	373	380	383	382	382	377	371	363	354	348	347
12	358	359	365	376	385	395	397	399	395	384	374	368	349	343	345
13†	356	356	360	363	369	376	375	374	377	374	371	367	363	360	357
14†	35	359	365	375	388	394	398	398	393	380	371	363	361	361	361
15	363	360	365	378	390	398	410	410	403	392	382	371	365	362	361
16	370	373	380	390	404	418	423	420	409	403	387	384	361	317	289
17	345	341	352	350	353	362	373	377	373	364	355	354	352	351	353
18	353	354	360	363	376	381	386	389	387	384	381	371	362	357	353
19	353	354	359	367	371	377	377	377	375	372	367	361	358	357	361
20	359	362	367	375	389	403	410	405	394	383	372	359	353	354	356
21	364	365	367	369	374	385	394	395	390	385	377	367	361	362	361
22	356	362	366	372	384	391	389	387	389	385	377	370	369	366	367
23	361	366	375	379	396	397	406	416	412	403	391	380	372	366	365
24	364	364	367	374	385	397	409	403	401	394	386	378	371	364	365
25	366	372	377	388	400	413	412	409	401	388	378	373	369	367	367
26	372	372	371	378	395	399	395	393	393	390	379	370	360	358	358
27	366	367	371	378	385	396	414	414	403	387	377	370	359	359	359
28†	361	363	373	385	398	403	409	405	398	388	380	368	356	355	360
29†	363	364	371	380	392	406	415	414	411	408	400	385	377	372	370
30	372	371	377	384	389	399	408	415	414	401	393	386	377	373	369
31	366	365	372	379	389	400	394	380	372	364	358	345	341	343	344
Mean . .	361	363	368	376	385	393	397	396	392	383	375	367	360	357	355
Mean† . .	363	364	369	377	388	397	402	400	397	389	381	371	365	362	362

AUGUST.

1	369	360	363	375	389	401	412	414	407	396	389	383	371	364	354
2	365	363	361	375	382	391	385	374	383	386	382	371	367	350	349
3	361	361	366	373	381	393	409	398	367	369	345	328	307	328	347
4	349	350	352	354	353	359	371	368	364	348	355	353	345	347	351
5	364	366	371	377	378	383	391	393	388	368	328	330	349	352	352
6	356	359	362	360	365	379	385	389	381	375	366	358	352	351	351
7	360	360	364	370	380	388	392	390	385	379	368	365	361	358	357
8	357	358	359	363	367	375	379	383	378	372	370	364	358	356	355
9	364	365	367	381	389	391	395	387	366	352	353	343	341	345	347
10†	359	361	364	374	383	393	403	402	395	388	382	375	360	365	364
11	371	371	372	379	388	394	397	393	384	381	383	384	379	373	371
12	374	379	381	377	390	399	403	412	418	418	413	415	400	381	373
13	367	367	375	385	397	406	410	407	370	381	381	377	368	363	362
14	364	366	370	379	393	404	406	399	403	399	383	379	376	367	363
15	366	365	366	367	374	385	395	401	400	394	385	376	367	359	354
16†	363	364	367	376	387	390	394	396	396	389	379	372	366	365	366
17†	371	373	377	383	398	407	412	414	410	401	396	389	382	380	380
18†	368	370	378	382	390	399	407	417	410	400	389	381	375	373	372
19†	376	377	383	388	395	405	409	413	415	410	407	395	384	378	372
20	373	374	375	381	389	395	399	395	391	381	379	374	373	379	383
21	387	401	391	394	405	408	397	388	389	391	383	369	353	343	345
22	369	362	361	365	376	391	405	415	412	403	398	383	371	366	358
23	357	358	363	368	383	396	393	393	393	386	367	355	362	360	357
24	364	363	366	377	390	399	400	396	392	385	377	369	355	364	342
25	364	362	362	366	375	382	385	382	380	380	378	375	372	367	362
26	374	375	375	382	391	397	401	403	399	393	386	380	376	372	366
27	373	375	374	379	389	395	403	395	363	342	345	354	352	351	336
28	357	354	340	363	355	368	342	347	351	315	305	312	331	336	332
29	361	352	349	351	355	356	370	362	355	340	331	317	323	336	334
30	351	347	350	355	372	379	379	381	367	372	361	355	348	346	332
31	349	350	355	361	370	369	378	377	375	374	368	362	356	354	351
Mean . .	365	365	367	373	382	390	394	393	387	380	372	366	361	359	357
Mean† . .	369	371	375	383	392	400	406	409	406	398	391	383	375	372	371

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

JULY. 37000γ PLUS TABULAR QUANTITIES

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
360	363	361	365	367	375	372	369	368	370	6 54	391	14 0	338	1
365	364	362	362	364	364	364	364	363	380	6 34	430	16 50	361	2
368	367	368	369	370	371	373	373	373	376	6 20	409	0 0	362	3†
373	370	373	377	386	380	378	386	384	385	5 46	408	16 2	368	4
380	382	381	381	359	351	359	364	353	**388**	5 14	430	22 34	345	5
326	337	338	338	348	351	351	351	350	**346**	4 37	392	14 30	307	6
341	340	342	344	344	349	348	347	346	351	4 48	385	13 36	339	7
343	344	355	343	342	348	346	353	358	357	6 36	397	14 30	341	8
346	348	353	352	350	349	353	355	357	361	6 30	393	14 20	341	9
363	347	351	358	353	353	358	362	357	363	7 20	401	16 14	344	10
347	350	353	357	355	355	354	353	356	362	5 48	387	15 0	346	11
348	350	350	352	352	358	358	355	355	365	7 0	402	13 10	343	12
356	355	356	359	361	361	362	360	358	364	7 35	380	16 10	355	13†
356	353	357	360	359	360	360	359	361	369	6 30	401	15 32	353	14†
359	359	361	363	362	361	361	360	368	374	6 16	414	21 58	358	15
326	335	333	339	340	337	341	348	343	365	6 18	**431**	13 49	**281**	16
355	355	353	354	354	355	355	353	355	356	7 25	382	1 0	339	17
357	353	355	357	354	352	353	352	354	365	7 11	394	17 44	351	18
361	351	357	360	360	358	356	355	360	363	5 29	382	21 30	352	19
354	355	357	357	358	361	360	362	362	370	6 0	416	12 0	353	20
360	358	358	362	363	364	363	363	358	369	6 33	399	15 50	356	21
370	369	366	363	365	361	357	357	361	371	5 41	394	21 33	351	22
357	355	357	359	361	363	364	364	365	376	7 8	421	15 48	355	23
367	366	365	362	373	365	362	360	359	375	5 58	412	21 6	359	24
366	367	369	372	374	376	374	372	373	380	4 47	418	14 34	365	25
357	354	357	358	360	361	362	362	366	372	4 54	402	16 22	353	26
357	354	356	359	359	358	358	359	362	372	6 22	420	16 16	353	27
361	362	361	361	361	362	363	363	363	373	5 34	411	12 4	356	28†
369	368	367	369	370	370	371	372	372	382	5 56	418	0 30	363	29†
366	364	369	369	372	371	378	373	367	381	6 50	418	16 11	363	30
338	333	341	349	354	360	366	365	368	362	5 22	408	15 46	332	31
356	356	357	359	360	360	361	361	361	369					Mean.
361	**360**	361	362	363	363	364	363	363	373					Mean.†

AUGUST.

354	349	340	335	343	356	356	361	362	371	6 18	416	17 52	332	1
352	347	353	344	372	365	364	379	364	367	5 18	396	18 2	338	2
347	349	351	363	355	355	363	361	359	360	6 8	412	12 20	305	3
361	360	357	360	360	361	360	360	361	356	6 26	373	0 14	341	4
353	353	352	352	357	353	354	354	353	361	6 12	397	9 50	314	5
356	357	352	352	356	358	356	356	363	363	6 50	391	13 30	349	6
352	353	353	356	358	361	362	360	357	366	6 12	395	14 42	352	7
357	357	357	358	358	361	361	361	365	364	6 46	385	14 2	353	8
347	350	353	353	355	357	357	357	356	361	6 2	396	11 40	339	9
364	366	367	366	371	371	371	370	369	375	6 30	406	0 0	359	10†
371	371	371	375	378	380	380	380	371	379	6 0	398	0 30	370	11
365	352	358	362	364	369	366	366	367	384	8 54	**424**	15 42	347	12
355	357	353	359	358	356	357	356	361	372	6 40	419	17 30	351	13
366	368	367	369	369	365	363	363	364	377	5 36	409	21 34	361	14
354	355	359	364	363	362	365	365	363	371	7 28	402	14 52	362	15
367	367	368	368	369	369	369	370	371	375	7 44	397	0 24	361	16†
376	375	375	371	368	367	370	363	368	384	7 10	415	21 54	361	17†
371	371	371	375	374	373	376	373	377	382	6 58	417	0 40	366	18†
369	367	369	370	373	373	373	375	372	**385**	8 10	417	15 30	366	19†
383	382	381	384	386	385	390	390	389	384	6 10	400	11 46	368	20
349	350	351	358	360	361	365	363	365	373	4 42	412	13 10	341	21
358	360	343	349	367	357	352	353	356	372	7 20	420	17 6	337	22
348	343	353	357	358	359	360	360	363	367	5 10	400	15 42	338	23
360	361	360	360	360	360	359	359	363	371	5 8	401	21 20	357	24
364	369	370	372	373	373	372	374	373	372	6 6	386	13 50	361	25
363	363	363	367	369	371	371	369	373	378	7 10	405	16 30	361	26
331	313	325	355	334	345	350	347	376	358	6 12	405	16 4	308	27
333	330	311	333	339	341	343	344	347	**339**	5 24	376	9 28	**293**	28
323	326	347	349	352	347	343	346	346	344	6 36	376	11 8	312	29
341	353	333	336	343	345	355	349	346	354	6 30	386	14 10	331	30
346	351	352	348	347	349	350	355	355	359	6 10	380	14 48	345	31
356	**355**	356	359	361	361	362	363	364	369					Mean.
369	369	369	369	369	369	370	**368**	369	380					Mean.†

*See footnote on page B-17.
†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

SEPTEMBER. 37000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	353	353	353	360	376	380	375	374	371	365	363	360	357	349	340
2	353	357	349	355	350	360	364	361	361	361	360	360	352	343	343
3†	355	353	350	351	358	363	368	368	368	364	361	359	359	360	362
4	366	363	360	367	380	384	383	383	380	379	376	367	363	361	358
5	369	372	374	379	391	399	399	400	399	393	381	371	364	360	364
6	375	372	373	388	405	421	407	383	376	383	383	364	326	287	268
7	343	345	343	345	355	365	363	364	357	351	347	351	354	353	348
8	370	373	367	348	363	382	380	377	377	375	368	363	362	364	366
9	362	371	366	353	365	369	380	385	385	383	378	373	365	361	357
10†	362	362	363	368	382	388	391	390	387	380	375	371	369	367	367
11†	374	373	367	373	388	392	398	397	392	387	384	385	383	380	375
12	372	371	365	364	369	380	387	385	381	378	375	375	375	374	371
13	373	375	375	379	389	401	407	408	403	397	388	379	379	379	379
14	384	382	384	393	419	424	424	425	418	407	397	389	385	384	380
15	378	377	376	372	381	396	410	411	403	399	393	387	380	376	377
16†	379	383	386	395	406	420	425	426	429	421	407	397	388	383	382
17†	391	391	394	398	401	404	404	404	401	397	388	388	387	391	391
18	394	394	393	397	407	420	419	411	403	397	389	380	383	377	373
19	382	375	370	359	367	378	381	376	374	365	353	363	350	359	367
20	379	376	367	368	371	371	368	363	353	357	368	369	367	369	362
21	376	379	380	386	393	401	406	404	398	392	383	377	374	375	375
22	379	379	387	395	396	398	396	389	387	383	359	340	344	345	352
23	362	363	361	362	373	379	378	377	373	341	331	325	315	323	322
24	362	358	349	358	370	377	353	364	374	371	354	342	339	332	335
25	365	360	345	352	355	360	363	361	352	359	352	348	333	317	305
26	351	347	350	353	362	361	362	361	373	371	358	345	355	361	359
27	353	351	356	353	356	363	370	366	368	371	357	343	316	350	340
28	358	358	358	364	370	379	381	377	372	364	359	354	348	349	343
29	362	359	373	374	382	390	394	395	393	386	366	358	363	364	366
30	358	355	358	363	378	388	388	381	371	368	371	365	352	348	352
Mean . .	368	367	366	369	379	386	387	386	383	378	371	365	361	358	356
Mean† . .	376	375	375	379	390	395	399	399	397	391	383	380	377	376	375

OCTOBER.

1	368	365	368	381	395	402	399	396	390	378	369	365	365	367	366
2	375	382	379	376	389	404	409	401	392	383	366	349	342	339	358
3	373	375	369	377	386	392	390	384	375	375	370	371	373	369	367
4	379	375	375	380	389	398	407	414	413	404	396	393	393	379	381
5	389	378	382	385	395	404	410	412	405	398	390	381	377	373	375
6†	390	390	388	378	381	393	398	399	397	393	392	393	393	391	386
7	382	386	383	385	395	402	408	413	414	410	401	393	387	384	383
8	390	390	387	384	387	394	403	407	405	399	394	390	390	386	381
9	383	387	383	384	394	399	412	415	409	398	390	381	383	383	387
10	389	379	375	378	370	377	384	390	390	387	379	372	370	371	371
11	379	381	382	382	383	394	405	413	408	398	390	386	383	379	376
12	377	379	377	372	376	385	401	415	409	399	391	387	384	382	380
13†	380	381	384	388	399	411	423	432	426	414	400	392	387	385	382
14†	382	381	381	386	397	409	419	422	414	403	395	391	389	387	385
15	399	399	382	387	408	422	445	445	414	357	325	307	287	271	291
16	369	360	349	346	357	373	390	361	361	364	359	351	346	347	342
17	367	373	369	364	371	381	392	400	391	370	371	373	372	363	354
18	367	368	360	362	368	377	381	387	384	380	373	368	367	367	367
19	381	382	383	386	394	399	398	404	392	377	372	368	360	362	364
20	374	377	377	379	385	390	400	405	395	382	374	364	364	343	341
21	363	367	347	343	341	340	341	336	336	318	314	325	329	338	341
22	361	363	364	368	376	378	383	389	385	376	375	372	368	364	363
23	369	370	369	375	383	387	394	398	391	366	348	343	314	342	341
24	366	367	370	378	380	384	391	398	395	370	349	352	359	351	363
25	363	363	363	364	369	374	377	376	362	354	345	342	338	332	330
26†	368	369	374	389	383	386	396	397	388	377	373	371	369	362	365
27	374	376	377	378	384	396	402	397	382	375	369	345	329	363	342
28†	363	368	373	376	381	389	397	393	386	379	371	370	373	373	373
29	379	385	388	391	399	407	412	415	411	402	392	386	385	384	382
30	391	389	395	397	404	409	411	406	389	380	365	347	349	362	361
31	370	372	373	383	393	397	399	391	388	382	368	359	356	353	350
Mean . .	376	377	375	377	384	392	398	400	393	382	373	367	365	363	363
Mean† . .	380	381	383	384	391	400	409	411	403	394	386	384	383	379	378

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

SEPTEMBER. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
339	346	347	351	350	351	351	351	350	357	5 4	384	14 44	333	1
343	347	351	352	353	354	355	359	355	355	6 6	368	13 14	338	2
360	359	355	357	359	363	364	365	364	360	7 50	372	2 14	347	3†
359	358	360	369	365	359	361	365	371	368	8 26	385	20 38	356	4
359	376	369	370	371	374	375	376	375	378	7 20	402	15 10	355	5
288	310	294	317	315	337	335	349	341	349	5 10	425	13 50	262	6
349	352	351	354	360	359	356	369	368	353	22 26	376	1 56	343	7
366	365	355	359	361	355	359	359	362	365	4 45	393	3 18	343	8
355	357	364	360	358	365	370	368	364	367	7 18	388	2 52	350	9
367	365	368	367	369	368	367	371	371	373	6 28	393	1 6	360	10†
373	373	373	374	374	372	372	371	371	379	6 30	401	1 56	366	11†
374	371	374	375	376	375	374	375	372	375	6 24	388	2 44	362	12
381	377	379	377	377	376	377	377	381	384	6 44	412	0 0	373	13
378	376	374	377	377	371	376	374	374	390	6 50	429	19 40	371	14
373	374	377	380	381	381	381	381	376	384	6 12	415	2 42	371	15
383	381	382	382	383	387	390	390	389	396	7 42	432	0 0	379	16†
387	389	391	390	389	394	392	392	391	394	5 20	407	15 24	387	17†
372	368	369	376	381	384	388	391	396	390	5 52	404	16 10	364	18
352	347	357	360	357	361	364	380	379	366	22 10	386	15 40	337	19
350	353	365	369	371	372	372	374	376	367	0 10	379	8 30	347	20
374	371	374	379	375	375	369	370	376	382	6 32	409	20 48	368	21
354	351	366	358	357	361	368	369	364	370	5 28	403	10 40	338	22
333	334	319	331	328	343	370	365	365	349	21 10	387	17 20	308	23
320	339	338	342	364	363	358	356	364	353	4 46	386	15 8	308	24
312	320	321	333	331	342	357	361	361	344	6 20	370	13 36	289	25
358	358	357	357	357	366	368	368	360	359	8 18	378	1 30	343	26
331	341	351	355	356	366	358	357	359	355	8 58	374	15 42	329	27
344	346	345	352	355	356	356	359	360	359	5 44	385	14 30	340	28
362	362	358	355	356	362	365	359	355	369	7 22	397	18 30	353	29
344	338	348	358	361	363	363	373	370	363	5 26	393	16 10	335	30
355	357	358	361	362	365	367	369	369	368					Mean.
373	372	372	372	373	375	375	375	374	380					Mean.†

OCTOBER.

361	361	362	364	364	364	366	371	375	373	5 10	403	15 10	360	1
354	359	365	365	368	366	364	366	367	372	5 40	410	12 50	335	2
364	364	366	371	374	375	375	373	374	374	5 32	395	16 14	361	3
384	378	377	379	378	383	382	379	380	387	7 28	417	16 22	367	4
380	380	377	375	384	381	379	381	385	386	7 8	418	17 46	370	5
383	380	380	379	379	385	384	389	385	388	6 46	401	3 6	374	6†
384	380	377	377	377	380	381	383	385	390	7 44	416	18 38	376	7
380	379	373	368	368	370	371	378	379	385	7 30	411	18 20	363	8
374	373	376	385	381	372	375	381	385	387	6 40	417	19 42	368	9
374	369	367	367	368	375	380	377	377	376	7 24	393	16 30	358	10
376	377	379	380	381	379	387	383	382	386	6 58	415	14 30	375	11
380	383	382	382	379	375	379	381	377	385	7 12	419	20 18	371	12
382	379	381	384	381	382	381	383	383	393	7 10	436	16 20	378	13†
385	384	385	392	395	392	390	387	396	394	7 10	424	1 50	380	14†
299	290	289	329	342	347	347	353	368	354	6 52	459	13 16	265	15
355	351	361	358	358	361	362	364	364	357	4 54	376	13 54	340	16
347	354	364	350	355	357	369	371	368	369	7 16	403	18 10	343	17
367	365	369	375	368	371	371	372	377	372	6 58	389	3 4	358	18
362	359	362	368	367	369	371	371	372	376	7 14	407	12 30	356	19
351	333	315	304	322	336	343	360	370	362	6 50	406	18 0	292	20
334	341	342	348	353	351	355	355	359	342	1 2	371	9 24	300	21
353	342	335	347	344	363	368	365	364	365	7 18	391	17 0	330	22
349	334	360	363	360	377	369	366	367	365	7 4	399	16 4	330	23
359	358	363	363	366	368	372	369	364	369	7 26	402	12 50	341	24
335	361	363	364	364	366	366	366	366	359	6 26	380	13 30	328	25
367	365	366	368	368	369	372	371	371	374	6 54	399	13 10	361	26†
325	346	356	361	363	364	363	359	359	366	6 2	404	14 48	317	27
373	373	374	374	376	376	377	377	378	377	5 54	398	0 0	363	28†
382	384	387	388	389	386	383	383	393	392	6 52	416	0 0	378	29
357	350	359	363	366	369	375	375	375	376	5 38	415	11 23	338	30
354	364	368	373	371	372	375	382	381	374	5 50	400	14 2	348	31
362	362	364	367	368	370	372	373	375	375					Mean.
377	375	376	378	378	379	378	378	379	385					Mean.†

*See footnote on page B-17.
†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

NOVEMBER. 37000γ PLUS TABULAR QUANTITIES

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	380	385	395	394	383	380	372	349	344	343	347	344	357	361	352
2	370	373	380	379	377	382	385	389	382	381	374	360	345	355	363
3	375	379	381	383	387	388	391	395	384	362	366	376	378	375	370
4	378	381	387	396	405	405	409	407	398	388	385	382	384	382	381
5	372	375	379	391	402	406	411	413	409	397	385	380	375	368	369
6†	375	375	380	388	396	409	413	407	400	393	386	382	381	383	382
7	385	388	397	409	417	417	420	418	411	404	400	393	385	379	377
8	385	389	392	394	397	402	404	401	396	389	386	388	385	380	376
9†	390	391	396	398	404	407	410	411	403	400	397	397	396	395	393
10†	392	393	398	408	417	423	426	419	411	403	397	394	391	389	387
11	396	397	405	409	413	418	424	419	414	413	413	409	405	402	402
12	389	392	410	434	444	451	446	428	411	395	383	376	375	378	371
13	379	383	391	403	418	431	436	429	420	409	400	386	370	367	362
14	381	386	399	407	410	417	411	395	379	353	363	375	369	369	358
15	379	375	381	390	396	397	402	394	383	373	374	371	369	368	375
16	389	394	391	383	395	391	379	371	366	365	351	345	353	344	337
17	366	374	379	383	385	390	392	389	377	372	356	347	342	345	351
18	371	376	382	385	384	385	383	381	376	372	377	378	376	370	368
19	376	378	379	387	395	400	400	398	388	374	367	364	360	358	360
20	378	379	382	386	392	396	400	394	387	381	374	373	376	372	372
21	380	381	383	388	390	396	407	408	399	391	390	385	381	378	377
22†	376	378	384	389	395	399	404	402	397	398	395	390	383	376	373
23	384	385	391	401	407	415	418	413	407	402	397	389	381	369	375
24†	389	393	398	407	412	411	418	416	411	404	401	395	389	388	387
25	392	395	404	409	415	432	450	446	433	429	423	411	406	398	396
26	393	389	397	406	409	414	411	406	392	388	382	377	374	377	374
27	390	393	397	403	405	401	402	402	397	389	384	381	380	383	382
28	386	393	403	415	426	432	428	422	413	404	395	388	377	356	359
29	394	391	405	418	426	425	438	422	409	400	385	376	377	375	372
30	380	381	385	394	400	409	407	399	392	388	383	382	381	380	379
Mean . .	382	385	391	398	403	408	410	405	396	389	384	380	377	374	372
Mean† . .	387	388	393	400	407	412	416	412	405	400	395	392	388	386	384

DECEMBER.

1	385	384	393	398	407	422	430	431	419	410	396	381	379	380	379
2	378	376	381	391	402	406	410	408	403	395	391	387	383	383	382
3	385	388	390	394	400	404	405	400	396	392	384	373	374	379	381
4	379	380	383	392	400	411	414	411	409	399	391	385	377	373	374
5†	383	388	392	397	395	398	398	398	397	395	392	390	388	386	386
6	380	384	394	399	405	410	413	406	393	395	396	387	385	385	386
7†	389	389	392	394	392	392	392	400	401	402	398	397	393	391	392
8	390	397	405	419	431	423	405	413	402	397	396	383	367	375	378
9	385	384	388	386	385	399	388	378	370	361	367	363	357	360	355
10	375	382	388	398	402	403	398	401	391	384	379	377	368	361	353
11	373	376	382	387	391	394	395	391	390	385	380	380	377	378	379
12†	382	385	389	395	399	403	399	388	381	374	376	378	379	379	379
13	381	383	395	404	408	411	403	399	396	389	380	386	384	375	369
14	380	384	388	403	403	408	415	420	421	415	409	378	356	327	327
15	351	357	358	363	362	377	375	364	362	355	344	344	343	340	342
16	313	340	343	345	361	368	371	367	368	356	349	346	349	354	357
17	350	353	362	366	367	373	373	371	369	359	349	342	339	332	319
18	365	366	373	376	379	387	382	373	363	352	348	349	346	348	352
19	369	372	378	384	393	402	405	405	396	383	377	371	363	359	347
20	377	378	381	385	391	398	404	403	399	390	384	380	377	378	378
21†	381	381	384	392	399	404	408	405	397	392	389	383	377	374	377
22	385	385	390	397	403	408	412	409	401	392	388	387	384	381	380
23†	387	388	391	394	394	399	404	405	404	399	396	384	379	381	383
24	387	392	394	397	403	410	416	412	403	399	396	397	398	396	392
25	396	400	406	407	405	407	421	434	429	424	413	408	397	392	382
26	384	383	385	393	405	410	410	409	399	394	395	392	384	379	372
27	379	380	381	394	390	396	395	397	393	388	380	368	370	374	367
28	381	382	386	391	395	397	397	391	383	379	376	377	381	367	355
29	379	381	385	392	396	403	408	405	399	395	392	390	381	376	379
30	382	386	391	395	403	413	415	412	404	398	392	388	387	381	382
31	378	380	381	384	390	401	407	401	393	392	389	387	382	384	381
Mean . .	377	380	385	391	395	401	402	400	394	388	383	379	374	372	370
Mean† . .	384	386	390	394	396	399	400	399	396	392	390	386	383	382	383

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

NOVEMBER. 37000γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									*Mean.	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
350	353	351	355	358	366	372	372	370	364	2 48	399	7 14	338	1
365	366	367	369	375	372	372	373	373	372	7 0	391	11 58	345	2
369	370	374	375	378	375	374	377	375	377	7 14	396	9 18	357	3
381	378	375	379	368	374	373	381	377	385	5 56	410	19 22	364	4
368	369	380	374	370	378	381	375	375	383	6 34	417	14 38	365	5
382	381	380	380	380	382	385	386	386	387	5 34	414	0 30	372	6†
381	387	395	385	377	379	378	379	382	393	6 18	422	18 50	374	7
381	382	382	385	383	387	387	390	390	389	6 0	406	13 40	373	8
392	392	387	386	385	384	392	391	390	395	7 0	411	18 42	383	9†
388	388	388	389	389	392	393	395	396	399	5 56	430	14 30	386	10†
401	397	393	391	387	391	387	390	391	403	6 20	426	18 34	383	11
363	360	360	369	372	383	380	379	379	393	5 18	456	16 46	354	12
355	362	367	375	381	375	382	386	380	389	6 4	438	15 5	353	13
349	343	357	372	372	373	374	382	394	379	5 46	421	16 0	339	14
379	381	377	401	405	402	387	386	388	385	18 4	409	12 56	367	15
363	346	342	376	357	362	377	381	371	367	4 24	399	14 18	333	16
303	363	369	364	363	369	376	377	375	369	5 34	395	12 36	334	17
355	376	368	366	366	367	375	375	373	374	4 40	388	15 12	351	18
351	359	365	364	371	370	371	370	371	373	5 38	403	14 56	349	19
371	376	369	367	373	374	375	375	378	379	6 16	402	14 46	365	20
374	377	374	377	378	377	380	381	379	385	6 30	410	15 10	374	21
368	371	379	378	377	378	380	381	383	385	5 54	406	15 2	366	22†
379	379	381	381	381	382	384	383	386	391	5 40	419	12 44	365	23
386	385	385	386	387	388	389	390	391	396	6 38	422	17 2	383	24†
387	372	383	388	398	396	392	387	394	406	5 58	460	15 42	370	25
375	378	381	384	386	387	389	389	390	389	5 44	415	11 56	373	26
378	377	379	379	378	382	382	383	384	388	3 14	407	16 10	377	27
369	372	380	383	383	385	389	390	393	393	4 48	435	13 14	351	28
366	369	360	365	367	370	373	377	375	389	6 24	445	16 52	358	29
377	378	380	380	382	381	383	383	383	386	5 10	411	15 4	376	30
372	373	374	377	377	379	381	382	382	385					Mean.
382	383	383	383	382	383	386	387	387	393					Mean.†

DECEMBER.

379	378	384	377	384	378	377	379	379	392	6 30	434	18 8	373	1
381	381	379	380	380	386	380	383	386	388	5 46	412	0 50	375	2
381	381	382	382	380	378	384	381	380	386	5 58	407	10 56	371	3
374	381	381	387	384	384	387	386	383	389	6 10	416	13 14	371	4
386	385	384	386	388	388	384	385	385	389	5 48	401	23 44	381	5†
385	388	387	387	389	389	388	385	393	392	5 16	415	0 10	380	6
393	393	392	391	392	391	390	391	391	393	7 22	403	0 30	386	7†
389	393	400	391	396	398	402	392	382	397	3 30	439	11 30	365	8
368	367	365	370	373	373	374	374	374	373	5 12	393	13 54	349	9
354	364	371	379	383	377	373	370	372	379	4 38	405	13 40	350	10
379	381	383	383	381	379	379	384	379	383	5 46	398	0 2	372	11
378	377	378	379	380	380	381	381	381	383	4 46	403	9 10	371	12†
358	348	361	362	366	371	370	366	370	381	4 30	414	16 30	344	13
351	337	309	282	300	319	340	347	348	364	7 2	426	17 52	275	14
340	337	335	322	331	321	311	318	319	344	5 32	390	20 56	305	15
357	348	354	341	335	337	352	353	346	351	7 44	374	0 20	312	16
320	324	326	334	359	366	359	361	362	352	19 26	384	14 42	317	17
357	363	364	362	362	365	366	367	368	364	4 50	389	11 58	345	18
348	359	367	367	369	373	379	375	377	376	5 50	406	14 20	345	19
379	379	379	379	380	382	382	382	382	385	6 44	407	11 48	376	20
377	381	381	383	385	383	383	384	385	387	6 24	409	13 2	374	21†
376	370	372	381	379	384	382	384	386	388	6 0	413	16 30	367	22
385	385	382	383	382	383	381	381	385	389	6 14	407	12 14	379	23†
386	386	387	388	393	397	394	395	394	397	6 14	417	15 30	385	24
375	383	377	368	368	377	382	376	377	396	6 46	438	19 20	366	25
372	377	380	380	388	371	365	372	377	386	4 50	413	20 30	362	26
371	373	374	370	376	375	373	376	377	380	6 46	401	14 2	364	27
369	377	383	372	384	377	383	389	380	381	6 4	400	14 8	352	28
376	377	379	379	378	378	383	386	383	387	6 10	410	15 18	372	29
374	377	378	378	382	370	367	369	375	387	5 50	416	20 58	365	30
384	385	377	373	381	384	387	378	379	386	6 12	412	17 40	369	31
371	372	373	371	374	375	375	376	376	381					Mean.
384	384	383	384	385	385	384	384	385	388					Mean.†

*See footnote on page B-17.

†Five international quiet days.

JANUARY. (Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.) 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	832	834	833	835	834	822	815	815	821	824	829	823	831	828	828
2	819	819	822	830	830	825	811	810	818	820	825	827	825	822	823
3	819	820	819	819	818	809	802	806	814	820	821	821	819	819	818
4	813	813	812	816	822	821	818	816	810	807	810	814	815	814	814
5	810	809	807	809	808	806	811	812	816	821	820	825	826	827	828
6	823	823	823	830	838	837	833	826	821	823	823	823	826	829	829
7	823	824	826	826	824	820	813	811	814	814	817	819	821	824	825
8	822	824	821	826	829	825	826	829	821	827	833	832	829	827	829
9	828	827	825	823	823	817	815	817	821	827	832	837	828	826	828
10	826	827	826	828	831	817	809	811	815	819	829	828	819	819	820
11	823	822	822	821	819	817	814	817	817	824	828	828	824	822	824
12	818	821	818	814	812	805	794	792	799	812	821	825	820	817	819
13	816	816	815	817	821	825	823	814	816	819	823	828	825	825	824
14	821	820	823	831	839	829	815	806	807	815	825	828	823	824	825
15	825	825	824	825	824	821	819	820	822	821	825	831	834	830	829
16	826	827	828	833	833	832	815	815	821	825	829	833	832	831	831
17	824	824	823	823	826	829	827	822	819	828	830	828	828	825	825
18†	820	820	820	822	823	819	817	816	813	807	810	816	819	820	820
19†	816	815	815	815	815	817	817	807	807	807	808	811	814	814	814
20†	803	802	802	804	809	810	801	792	801	805	809	814	816	817	819
21†	822	821	820	821	825	825	825	821	821	824	823	825	827	828	828
22†	824	824	826	831	836	833	813	811	813	806	803	811	821	825	826
23	819	819	819	825	833	831	823	816	822	832	829	828	828	825	826
24	822	823	825	833	837	829	820	819	826	834	835	832	829	827	830
25	827	827	827	831	838	837	826	822	831	834	832	835	832	830	830
26	820	829	830	834	842	835	827	834	841	843	842	832	827	829	833
27	830	827	829	837	837	825	811	817	829	834	836	836	831	827	829
28	824	822	827	831	833	815	799	795	805	815	823	823	822	824	813
29	820	821	820	826	829	821	819	824	827	827	825	826	825	824	825
30	827	828	829	837	832	819	818	828	833	831	831	835	832	829	829
31	827	826	828	840	843	836	833	836	829	818	820	825	827	828	828
Mean .	822	822	822	826	828	823	816	815	818	821	824	826	825	824	825
Mean† .	817	816	816	819	821	821	814	809	811	810	810	815	819	821	821

FEBRUARY.

1	825	824	827	835	837	827	813	813	824	832	828	825	823	822	821
2†	804	803	804	816	826	818	807	809	805	803	803	802	801	799	797
3	790	789	792	801	803	796	778	764	773	780	781	781	786	790	788
4	785	783	783	787	790	784	782	791	793	794	790	792	785	786	791
5	790	791	790	795	803	809	815	818	823	828	832	838	841	844	847
6	847	848	849	853	852	845	836	833	835	836	845	849	845	843	846
7	841	840	839	840	838	833	825	827	835	837	836	832	833	835	837
8	829	830	831	834	832	827	813	808	816	819	824	825	823	821	824
9	823	823	825	828	829	822	810	809	820	828	832	833	829	827	829
10	828	828	828	829	833	833	821	816	823	835	839	841	836	834	834
11	833	834	834	837	835	828	820	816	823	832	835	834	831	827	827
12	820	821	820	817	808	803	795	796	802	806	809	812	814	812	809
13	799	795	796	802	808	806	803	806	807	817	821	824	822	819	820
14	817	818	820	823	818	813	808	803	804	806	804	811	817	820	819
15	818	820	821	826	830	830	821	812	818	828	835	837	835	834	836
16†	839	840	841	847	853	855	844	834	836	841	846	852	853	852	850
17†	836	835	836	842	845	844	841	833	833	831	830	834	834	833	833
18	819	818	820	825	830	828	822	817	813	814	816	816	816	814	815
19	807	807	810	811	810	803	796	795	800	800	801	802	803	804	809
20	814	816	815	821	823	823	823	825	827	828	828	828	826	826	830
21	830	829	829	831	835	837	833	824	828	836	839	836	829	830	834
22	829	829	830	830	825	823	824	827	839	846	841	840	837	837	840
23	842	843	841	841	841	840	837	837	837	836	839	841	840	839	842
24	837	836	837	842	846	841	837	831	832	833	832	831	828	830	833
25	833	833	833	835	831	820	815	817	821	822	822	822	821	821	824
26†	824	824	826	827	823	810	802	801	803	807	808	811	814	814	813
27†	819	819	821	824	825	817	803	794	801	807	813	819	817	812	812
28†	817	817	818	818	814	811	803	801	804	809	813	814	817	818	815
29	819	819	821	825	825	816	807	806	809	809	812	814	813	814	815
Mean .	821	821	822	826	827	822	815	813	817	821	823	824	823	823	824
Mean† .	819	819	821	827	831	827	818	812	815	817	820	824	825	823	822

† Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

JANUARY. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	−γ	H. M.	γ	
827	822	822	825	823	821	821	822	821	825	3 0	836	6 6	813	1
825	822	820	820	818	818	817	816	818	821	3 44	834	6 28	804	2
818	818	816	815	815	815	814	813	813	816	10 42	823	6 10	800	3
814	813	812	812	810	809	809	809	809	812	4 28	824	8 44	806	4
828	827	827	828	828	826	825	825	824	820	14 47	829	4 30	805	5
827	826	826	826	825	824	824	823	822	826	4 2	839	7 52	819	6
826	826	826	826	826	826	823	823	822	822	20 48	830	6 38	810	7
831	831	833	835	831	830	829	830	827	828	18 0	837	8 4	817	8
827	828	828	827	829	827	827	827	824	826	10 52	839	6 28	813	9
823	822	821	821	823	823	821	821	820	821	10 30	832	6 21	807	10.
823	824	824	826	826	822	823	822	820	822	10 40	829	7 38	813	11
820	817	816	817	818	817	817	815	816	814	11 0	827	6 26	787	12
824	823	822	821	821	821	821	819	819	821	11 0	829	7 10	811	13
824	824	824	824	824	823	823	824	820	823	4 6	842	7 10	805	14
827	827	827	828	827	828	827	826	824	826	12 10	835	5 44	816	15
831	831	831	828	827	827	827	827	826	827	3 47	834	6 30	813	16
824	823	823	822	822	822	822	821	821	824	9 46	831	7 48	817	17
820	820	819	819	819	818	819	818	817	818	3 36	825	9 22	805	18†
813	811	811	810	809	808	806	804	805	811	5 42	819	22 14	803	19†
822	822	822	822	822	823	822	821	821	813	20 16	823	6 58	789	20†
829	828	828	828	828	828	827	827	826	825	14 20	829	2 18	819	21†
826	826	825	824	825	825	824	822	822	821	4 26	838	9 54	801	22†
826	825	825	825	825	824	823	823	823	825	4 8	836	7 18	815	23
830	832	830	831	829	830	829	828	826	829	3 48	838	7 10	817	24
833	830	828	829	829	830	829	829	828	830	4 10	840	6 22	821	25
834	833	833	834	833	832	832	832	832	833	9 40	845	5 48	825	26
830	828	826	828	829	827	827	826	821	828	3 50	841	6 6	809	27
816	819	819	818	818	816	815	814	814	817	4 1	835	6 46	791	28
823	822	822	823	823	822	822	822	823	823	3 34	830	5 38	814	29
829	829	828	828	828	828	827	828	826	829	3 20	839	5 34	815	30
829	831	825	825	825	825	825	824	823	828	3 30	844	9 14	815	31
825	825	824	824	824	823	822	822	821	823					Mean.
822	821	821	821	821	821	820	819	819	818					Mean.†

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819	817	816	816	815	814	812	812	810	821	3 50	839	23 32	809	1
796	796	796	795	795	795	793	792	791	802	4 16	829	23 42	791	2†
787	785	791	791	790	787	786	787	785	785	3 36	805	7 10	763	3
791	792	790	795	793	793	789	791	791	789	17 42	797	5 34	780	4
847	848	852	851	850	850	850	850	849	831	17 8	855	3 54	802	5
848	849	848	849	848	846	845	846	845	845	3 40	855	7 10	832	6
837	836	837	838	837	838	837	834	834	835	3 14	842	6 9	821	7
825	823	824	827	826	826	825	824	824	824	3 47	836	6 44	805	8
830	830	831	833	832	829	829	827	826	826	10 48	833	6 30	807	9
835	835	831	833	831	832	832	831	831	831	10 54	843	6 40	814	10
827	826	825	826	825	825	823	823	822	827	3 16	838	6 38	814	11
809	807	808	807	805	805	806	804	801	808	0 40	823	6 0	794	12
819	819	819	822	822	821	821	820	820	814	11 10	825	1 30	794	13
820	820	819	821	823	822	822	823	822	816	22 26	824	9 52	802	14
837	836	837	838	839	839	839	838	838	831	20 18	840	7 4	810	15
849	849	848	848	847	847	845	844	843	846	4 28	856	7 18	832	16†
832	831	831	831	830	829	829	827	825	833	4 0	845	23 10	824	17†
814	814	814	813	811	811	811	810	810	816	4 14	831	23 56	809	18
811	812	813	815	815	814	814	814	814	808	18 46	817	6 30	793	19
832	830	829	828	827	828	827	827	827	826	15 18	834	0 0	813	20
831	832	833	832	831	831	829	828	828	831	10 30	842	7 4	823	21
837	839	839	841	841	839	839	837	836	835	9 20	850	4 46	822	22
842	842	841	842	841	835	836	833	834	839	1 8	845	19 52	831	23
833	833	834	833	833	832	830	829	829	834	4 0	848	12 6	826	24
825	824	822	823	822	822	821	819	818	823	2 29	836	5 36	813	25
814	814	814	814	814	814	814	813	812	814	2 40	828	6 22	801	26
812	813	813	814	815	815	815	814	815	814	3 56	826	6 58	793	27†
815	816	816	817	818	818	817	817	817	814	12 44	819	6 56	799	28†
815	815	815	816	816	816	816	815	814	815	3 34	826	6 30	805	29
824	824	824	824	824	823	822	822	821	822					Mean.
821	822	822	823	823	823	822	822	821	822					Mean.†

*The daily mean values of vertical force derived from 24 hourly values, have been corrected for progressive change by 1/48th of the difference between the values of the initial and terminal hours.

†Five international quiet days.

MARCH. (Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.) 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1†	816	814	813	814	815	814	814	818	822	823	820	814	810	813	816
2	820	819	821	830	826	815	807	808	817	824	827	825	821	817	818
3	822	821	819	820	821	815	814	817	817	822	827	819	817	818	817
4	822	821	822	823	819	814	811	806	813	817	822	823	821	822	822
5	819	820	818	820	809	803	798	800	809	814	818	814	811	810	813
6	807	807	809	812	809	801	792	787	796	802	805	802	804	805	803
7	803	803	804	804	802	798	794	795	801	805	808	807	806	804	803
8	796	801	802	801	795	793	791	790	797	799	802	803	797	795	797
9	792	792	796	795	791	790	789	799	810	821	824	824	825	825	826
10	826	828	830	835	839	839	840	840	845	846	843	840	833	831	834
11	829	827	830	834	837	837	830	827	833	838	840	834	832	831	830
12	826	825	826	828	830	827	823	817	818	828	834	831	829	831	834
13	837	837	839	841	844	847	844	841	841	846	847	841	839	838	838
14	839	840	842	841	839	838	828	825	831	837	839	833	831	833	834
15†	830	830	835	838	841	839	833	833	833	836	839	835	830	825	827
16†	824	826	828	829	827	818	806	805	815	821	824	823	818	815	817
17	819	820	820	821	815	811	808	812	821	827	832	830	827	825	823
18	833	835	838	840	839	833	825	827	829	831	833	835	836	833	833
19	831	834	835	835	828	823	812	810	816	825	829	829	827	826	827
20	828	829	832	831	823	816	811	807	813	824	830	830	827	821	821
21	818	819	820	810	803	796	792	794	799	808	810	813	812	810	810
22	807	809	808	794	777	775	771	776	790	799	805	799	794	801	802
23	798	799	800	794	775	767	765	773	788	796	795	789	786	787	787
24	787	789	789	786	778	772	767	770	778	783	787	788	788	789	785
25†	782	782	780	776	771	773	780	792	808	817	821	821	821	826	830
26†	835	835	838	840	841	837	831	832	837	843	847	845	842	843	842
27	836	836	837	837	838	839	832	831	837	839	838	836	837	841	839
28	837	839	840	841	841	842	838	836	838	836	834	831	832	836	840
29	837	836	835	835	829	825	821	819	823	824	825	827	829	833	831
30	823	824	825	824	821	818	813	811	823	831	828	824	820	823	823
31	825	827	823	819	803	800	797	801	818	828	828	821	811	813	818
Mean .	819	820	821	821	817	813	809	810	817	822	825	822	820	820	821
Mean† .	822	822	823	823	822	819	815	818	825	829	831	828	824	824	825

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1	820	820	824	825	825	824	819	816	822	826	828	823	821	819	819
2	821	824	824	822	815	811	808	802	806	814	820	817	812	814	815
3	820	819	823	820	809	798	789	789	799	808	816	814	811	804	807
4	809	811	811	806	797	792	785	787	797	807	813	814	811	811	811
5	817	819	820	815	807	803	795	795	803	809	812	813	815	817	819
6	824	829	830	825	821	815	808	801	808	819	827	831	830	829	829
7	834	838	840	833	828	819	806	807	817	823	830	831	829	825	830
8	827	827	828	826	819	806	792	791	805	820	829	829	824	817	818
9	825	827	828	820	812	813	807	801	808	819	825	823	819	815	816
10	813	815	814	814	813	817	812	806	809	819	824	828	829	827	825
11	829	828	833	835	831	825	818	817	824	830	834	837	837	832	828
12†	829	830	832	828	824	819	807	798	799	810	820	827	831	829	826
13	822	825	829	827	818	807	796	791	799	810	818	818	815	812	811
14	812	813	817	812	807	801	796	799	811	820	821	820	815	812	811
15	809	812	812	812	802	792	788	793	804	814	817	815	810	803	807
16	814	819	819	810	798	791	788	792	807	819	825	829	828	830	830
17	840	846	845	841	834	827	823	824	820	833	838	842	842	841	841
18	848	851	853	847	833	827	823	830	836	843	848	848	846	848	845
19†	850	852	854	844	829	810	800	811	821	830	835	838	837	834	836
20†	839	842	841	833	808	801	799	803	817	831	833	833	834	830	829
21†	825	829	830	823	812	794	778	784	796	808	815	818	817	815	815
22	818	819	818	809	795	788	780	787	801	809	814	817	817	814	810
23	812	814	810	805	798	791	795	804	815	827	835	840	842	836	835
24	845	850	851	847	840	832	822	818	824	838	846	847	847	843	841
25	851	850	849	846	838	829	822	823	835	850	858	863	859	852	848
26	851	850	847	843	833	820	808	811	826	834	840	843	845	842	844
27	839	843	841	833	821	813	815	817	819	826	836	837	835	828	826
28	821	823	819	808	786	771	770	777	791	800	803	804	805	803	802
29	796	801	800	794	778	768	760	756	764	777	791	796	796	790	787
30†	784	789	788	780	765	764	772	783	798	814	826	834	836	837	836
Mean .	825	827	828	823	813	806	799	800	810	819	826	828	827	824	823
Mean† .	828	832	832	824	809	799	792	797	807	820	827	830	831	829	828

†Five international quiet days.

MARCH. (Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.) 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
817	818	819	819	819	819	819	819	818	817	8 16	824	12 16	809	1†
819	818	821	821	822	818	819	815	819	819	3 24	834	6 4	805	2
819	821	822	823	822	823	822	820	819	820	9 46	831	5 26	810	3
823	824	825	825	825	826	823	822	822	821	19 34	831	7 4	805	4
815	814	814	815	813	814	814	813	810	812	1 30	822	6 42	796	5
805	806	807	808	807	809	805	804	804	804	2 48	813	7 26	786	6
804	806	805	803	803	805	802	802	801	803	10 0	809	6 24	792	7
800	799	801	801	801	800	800	796	793	798	2 28	805	7 2	788	8
828	833	832	837	835	835	834	837	834	817	22 38	839	6 4	786	9
836	837	838	839	836	835	839	833	836	837	9 2	847	0 2	824	10
831	833	833	835	835	835	834	834	834	833	9 36	841	1 28	824	11
834	835	837	839	839	839	839	838	838	831	19 28	841	7 14	816	12
840	841	841	843	843	843	843	843	840	**841**	9 38	**848**	1 30	836	13
836	836	837	838	837	836	836	835	833	835	2 22	842	6 30	823	14
828	828	828	828	828	827	827	826	825	831	4 20	842	13 10	825	15†
817	818	818	818	818	816	815	815	815	819	3 12	830	6 36	802	16†
824	825	826	827	827	827	826	824	824	823	10 10	833	6 4	807	17
834	835	833	833	830	829	827	826	827	832	4 6	842	6 16	822	18
828	827	827	827	826	825	824	824	823	826	1 46	837	6 00	808	19
821	824	823	823	822	820	821	819	818	822	2 10	833	6 50	805	20
813	814	815	814	814	812	810	810	808	809	1 34	822	6 10	791	21
802	804	805	805	804	801	802	799	799	797	1 24	811	6 16	769	22
789	788	789	790	790	790	788	787	787	787	1 40	802	6 10	**764**	23
786	787	788	789	789	788	787	785	785	**784**	1 42	791	6 20	766	24
832	834	835	837	838	838	838	837	837	814	20 0	839	4 40	770	25†
842	843	844	845	844	844	844	843	842	841	10 10	847	6 22	830	26†
840	841	843	844	845	843	842	841	840	839	18 26	846	6 20	829	27
839	842	843	843	844	842	841	840	837	839	18 48	847	11 18	829	28
835	833	834	836	836	835	834	835	832	830	0 38	841	6 54	816	29
823	823	826	824	827	828	825	826	823	823	9 3	833	6 36	809	30
821	821	820	820	820	817	818	818	818	817	0 42	831	6 18	795	31
822	823	823	824	824	823	823	821	821	820					Mean.
826	826	827	827	827	826	825	824	823	824					Mean.†

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823	822	822	823	824	825	823	822	822	822	10 0	829	6 58	815	1
819	821	820	821	819	821	819	818	818	817	1 58	826	7 4	801	2
810	810	811	813	809	810	810	809	807	809	2 8	824	6 56	786	3
813	816	819	818	818	817	818	820	821	809	23 28	823	6 32	782	4
819	821	823	823	823	822	821	822	822	815	16 56	825	6 41	791	5
831	834	837	837	835	836	836	835	835	827	17 0	839	7 0	799	6
831	830	833	834	834	833	831	830	829	828	2 20	841	6 22	803	7
821	822	821	823	824	824	822	822	820	819	10 22	830	6 28	789	8
817	818	818	820	819	818	815	814	813	817	1 46	830	6 52	800	9
827	829	830	832	831	831	831	830	829	823	18 20	833	7 20	805	10
828	830	830	831	831	831	831	830	829	829	11 20	838	6 32	816	11
825	827	828	829	827	827	827	826	824	823	2 2	833	7 30	797	12†
812	818	818	817	818	816	816	816	814	814	1 54	830	7 2	789	13
811	810	812	813	813	812	812	811	811	811	8 48	823	5 58	794	14
810	811	813	814	815	815	814	814	813	809	10 42	818	5 48	786	15
831	833	835	837	837	838	838	837	838	822	23 34	840	6 4	788	16
842	845	846	847	847	847	847	843	846	840	1 20	849	6 24	822	17
848	849	849	850	850	850	850	850	849	845	1 58	854	6 20	821	18
839	840	841	842	843	841	840	838	837	835	1 54	855	5 50	798	19†
829	829	830	830	830	830	828	827	827	826	1 20	844	5 58	797	20†
815	818	819	819	819	818	817	816	815	813	1 30	832	6 6	776	21†
813	813	813	814	814	814	814	809	810	809	11 14	825	5 38	779	22
838	840	843	845	847	844	843	843	843	828	18 24	848	5 8	790	23
844	847	847	851	849	850	848	847	845	843	17 54	853	7 20	817	24
850	852	854	855	855	853	851	850	849	**848**	11 16	**863**	6 14	821	25
846	848	848	849	849	847	847	845	842	840	0 42	852	6 40	805	26
827	827	828	829	828	829	827	824	824	828	1 24	844	5 26	811	27
800	801	801	803	801	801	802	801	798	799	1 12	826	5 56	768	28
789	789	790	790	789	789	788	787	785	**785**	0 54	802	6 54	**756**	29
839	842	846	848	847	847	848	848	849	819	23 58	851	4 40	763	30†
825	826	828	829	828	828	827	826	826	822					Mean.
829	830	831	832	831	831	829	829	828	823					Mean.†

*See footnote on page B-29.
†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

MAY. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	854	858	854	848	839	834	821	825	835	846	852	855	858	852	856
2	857	860	858	854	844	828	823	826	837	850	85[illegible]	858	853	852	851
3	853	852	848	847	834	818	808	811	827	845	856	855	850	846	849
4	844	847	845	837	824	811	803	801	809	822	832	835	835	833	832
5	826	832	829	820	807	797	794	794	799	811	824	828	824	820	821
6	821	826	824	816	797	784	784	795	806	815	822	821	821	819	819
7	816	823	822	811	795	790	792	795	809	827	835	837	837	836	833
8†	839	844	839	832	822	818	817	819	824	830	834	841	845	842	840
9†	845	847	842	835	821	817	819	822	827	839	845	847	843	840	841
10	847	847	851	843	818	813	814	810	817	832	841	843	845	845	840
11	841	846	846	840	833	825	823	829	836	844	846	844	844	840	840
12	840	841	835	830	821	822	826	829	837	845	846	845	838	832	830
13	827	829	833	816	815	775	775	789	791	811	810	812	813	811	811
14	813	814	815	802	789	783	791	803	812	809	812	811	817	818	820
15	826	827	830	823	818	803	809	810	813	817	823	828	832	833	830
16	843	847	850	847	826	825	825	828	838	840	848	850	844	843	842
17	848	852	856	834	814	809	809	819	833	842	847	849	849	846	842
18†	839	841	841	842	831	831	830	829	827	831	834	834	834	833	832
19†	828	831	837	822	804	808	794	793	792	801	813	826	820	819	820
20†	810	818	819	812	789	782	778	779	781	794	795	796	796	793	793
21	803	810	805	796	787	787	791	798	811	811	826	831	835	837	832
22	842	844	843	828	811	799	809	820	827	833	836	843	851	844	842
23	846	849	856	847	821	811	807	807	821	833	833	850	852	851	844
24	842	845	854	837	818	805	800	798	806	813	820	828	832	838	835
25	835	839	837	830	820	815	813	811	813	829	820	829	834	833	829
26	826	829	833	825	811	796	787	785	785	797	807	811	814	818	816
27	818	822	823	823	814	803	803	807	811	817	819	821	820	817	813
28	812	816	819	811	800	787	783	790	798	809	815	814	809	805	805
29	809	814	810	801	786	777	777	781	787	795	799	801	802	805	810
30	813	819	820	815	792	785	798	816	829	835	830	830	837	841	843
31	846	847	849	850	830	826	822	827	833	832	833	833	845	841	842
Mean .	833	836	836	828	814	805	804	808	815	824	829	832	833	832	831
Mean† .	829	834	834	827	811	810	806	807	809	819	824	827	828	826	825

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1	854	856	850	840	828	821	819	821	829	836	842	848	849	845	842
2	847	853	852	849	842	834	832	836	839	839	836	836	836	834	835
3†	837	840	836	825	812	803	801	799	801	809	818	824	827	824	819
4†	821	827	825	819	806	794	787	789	796	804	807	807	811	810	807
5	812	815	812	798	785	781	781	781	783	791	793	800	804	801	796
6	799	805	803	791	771	763	765	772	780	784	789	788	787	787	785
7	793	797	792	797	799	802	797	798	814	827	828	833	837	837	835
8	847	849	851	850	850	844	835	834	838	844	845	849	852	849	847
9	843	844	853	850	844	834	829	827	830	836	841	839	838	835	835
10	831	833	834	826	818	810	809	806	810	817	820	830	832	827	823
11	820	827	828	823	806	798	798	803	808	816	826	835	841	841	839
12	845	849	849	843	831	820	815	811	814	822	825	828	837	840	841
13	851	856	856	850	846	842	839	836	834	842	840	844	847	851	850
14	853	856	852	848	846	845	841	833	831	834	841	846	846	847	845
15†	846	849	851	842	835	825	813	802	804	816	824	830	832	831	830
16	834	837	827	827	821	811	808	810	814	820	820	819	821	820	818
17	826	826	819	814	809	803	797	799	812	825	829	825	821	814	813
18	820	822	822	821	815	814	815	827	841	853	862	866	863	859	858
19	864	867	866	859	842	831	826	825	834	843	850	855	857	855	853
20	856	862	865	859	850	838	837	845	862	868	867	861	855	855	858
21	867	867	860	858	850	836	824	823	831	838	842	849	853	856	854
22	856	861	856	848	837	835	830	835	841	842	849	853	852	847	846
23	855	857	853	847	841	832	824	821	828	842	857	861	862	858	847
24	851	855	852	842	829	818	818	817	827	829	834	841	842	841	839
25	847	851	851	843	821	810	802	804	812	815	823	831	834	834	829
26	834	837	836	830	818	807	798	791	804	813	813	819	821	820	820
27†	824	829	824	816	801	793	801	808	812	820	821	825	830	832	832
28†	844	848	850	849	835	821	818	818	817	834	842	843	842	842	839
29	849	850	845	839	830	815	810	811	821	833	844	846	841	837	835
30	845	848	843	839	828	822	816	807	815	827	836	839	836	835	832
Mean .	839	842	840	835	825	817	813	813	819	827	832	836	837	835	833
Mean† .	833	838	837	829	817	806	803	803	805	817	822	826	829	828	825

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

MAY. 17000 γ PLUS TABULAR QUANTITIES*

Hours (G. M. T.) 15	16	17	18	19	20	21	22	23	Mean.*	Maximum. Time.	Mag.	Minimum. Time.	Mag.	Date.
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
857	856	853	853	856	857	857	857	857	850	1 22	859	5 26	820	1
855	857	860	862	861	863	863	**866**	861	**852**	22 24	**871**	6 0	822	2
852	853	853	855	855	854	854	853	851	845	10 0	858	6 22	805	3
835	838	840	839	839	840	838	837	834	831	1 8	849	6 35	801	4
822	826	827	827	827	826	826	825	822	819	1 50	834	7 35	792	5
819	819	820	821	821	822	818	817	817	814	1 24	828	5 40	781	6
835	838	839	840	839	839	838	838	838	826	17 46	840	4 24	789	7
840	841	843	844	844	845	844	843	843	836	12 10	847	5 54	817	8†
842	845	847	847	846	845	846	845	845	839	1 6	849	5 2	817	9†
839	840	843	843	843	843	845	845	844	837	1 18	854	7 8	808	10
842	843	842	843	844	843	843	843	842	840	9 34	850	5 6	823	11
828	830	830	829	829	829	826	826	825	832	10 4	848	4 16	820	12
812	813	814	816	815	814	815	813	813	810	1 20	835	5 6	772	13
818	820	821	822	824	824	824	824	824	813	22 44	827	4 52	777	14
828	830	833	834	835	836	837	837	836	827	19 20	839	5 8	807	15
843	844	846	846	847	848	848	846	846	842	10 20	854	5 2	823	16
842	842	842	843	843	843	841	841	840	838	0 58	858	4 52	807	17
832	832	832	832	832	831	831	831	831	833	12 0	844	7 14	826	18†
818	817	818	818	818	816	817	815	814	814	1 16	839	7 42	791	19†
797	798	800	800	800	799	799	799	798	797	1 38	822	6 16	778	20†
833	840	842	843	843	843	842	842	843	823	22 30	844	4 20	785	21
839	841	841	842	844	845	845	845	844	836	11 50	853	4 44	797	22
843	843	845	848	848	848	849	847	846	839	1 4	857	5 40	805	23
837	837	838	840	842	843	843	842	841	831	1 16	857	6 38	797	24
832	828	831	831	831	832	831	831	830	827	0 56	844	7 50	807	25
817	819	821	823	821	820	820	820	818	813	1 8	836	7 1	784	26
813	814	814	815	815	815	815	815	814	815	2 30	826	5 11	801	27
805	805	807	809	809	811	807	807	805	806	2 6	822	5 32	783	28
810	812	806	813	816	814	815	813	812	803	20 48	825	5 26	775	29
844	845	848	850	846	845	845	843	843	830	18 26	853	5 2	781	30
844	844	847	847	848	847	845	845	845	841	19 10	850	6 2	821	31
831	833	834	835	835	835	834	834	833	828					Mean.
827	828	829	829	830	829	830	829	828	824					Mean.†

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843	844	844	844	843	843	842	841	841	840	1 6	857	5 36	818	1
833	834	834	834	834	834	834	831	831	837	1 10	854	5 50	831	2
821	822	823	822	821	821	820	820	819	819	0 50	841	6 40	798	3†
808	808	810	810	808	808	807	807	807	807	1 12	828	5 56	785	4†
797	797	799	800	800	800	797	797	796	796	0 58	816	5 36	778	5
788	790	792	792	793	792	791	790	789	787	1 16	805	5 32	762	6
838	841	844	848	847	847	846	847	846	826	18 30	850	0 0	791	7
848	848	850	851	850	848	851	851	846	847	21 42	855	6 22	832	8
834	837	837	839	838	837	836	836	837	837	2 44	855	7 5	826	9
823	824	825	824	824	824	823	820	821	822	2 2	835	7 10	805	10
841	843	843	845	844	843	845	846	845	830	18 26	847	5 30	795	11
841	839	841	843	843	844	845	844	844	836	1 54	851	7 2	809	12
850	849	850	850	851	850	850	850	850	847	1 10	858	7 50	832	13
844	845	845	845	845	845	845	845	844	844	0 50	858	7 44	829	14
830	830	831	832	832	832	832	832	832	829	2 10	851	7 30	801	15†
819	821	823	823	824	823	823	821	822	821	1 4	839	6 24	806	16
815	816	817	819	817	816	815	813	814	815	10 4	829	6 30	796	17
861	862	864	864	864	864	864	865	864	848	11 10	867	4 34	812	18
855	855	856	857	858	857	858	855	855	851	1 30	868	6 40	822	19
859	860	861	861	862	862	862	861	860	858	9 20	870	5 10	836	20
854	857	857	858	857	856	856	855	853	850	0 50	871	6 32	821	21
847	849	851	852	849	849	848	848	847	847	1 4	863	6 10	828	22
846	847	847	848	847	847	845	844	844	846	11 34	863	7 14	819	23
840	841	843	843	843	845	841	841	840	838	1 2	857	6 54	815	24
829	832	835	834	833	833	833	831	830	829	1 6	853	6 24	801	25
820	821	822	823	822	822	822	820	820	819	1 10	838	6 58	790	26
834	835	837	838	838	837	837	838	838	825	19 20	839	4 40	792	27†
839	839	841	841	841	842	842	842	842	838	2 14	852	7 50	812	28†
837	838	838	839	839	840	840	839	839	835	0 40	853	6 8	808	29
834	836	837	837	836	836	837	836	834	833	0 58	849	6 50	805	30
834	835	837	837	837	837	836	835	835	832					Mean.
827	827	829	829	829	829	829	829	829	824					Mean.†

*See footnote on page B-29.

†Five international quiet days.

VERTICAL FORCE, 1932.

(Averages for periods of sixty minutes centred at the full hours of Greenwich mean time.)

JULY. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	842	847	845	839	828	810	800	811	827	834	836	836	835	832	831
2	843	847	840	829	813	801	799	814	828	834	838	839	836	827	826
3†	841	847	844	833	814	801	797	802	813	819	828	838	839	836	832
4	840	844	845	843	832	817	813	818	822	832	839	837	834	828	829
5	842	847	842	831	811	799	792	797	801	806	814	825	830	826	821
6	836	840	837	826	811	806	810	815	828	840	842	840	835	830	828
7	830	831	826	818	813	801	787	788	804	823	826	826	823	819	813
8	819	823	821	814	810	803	800	802	803	809	809	811	809	807	805
9	805	807	804	798	793	793	783	787	802	819	833	846	854	854	852
10	868	871	872	872	870	867	861	855	857	865	872	868	865	861	860
11	865	869	867	861	851	840	835	839	847	848	847	851	853	856	856
12	856	861	863	860	847	839	833	828	829	841	847	847	848	845	842
13†	842	844	839	831	827	822	815	806	812	819	824	827	831	832	829
14†	828	830	832	830	823	815	809	807	810	810	815	819	818	816	812
15	823	829	825	814	804	796	791	789	800	813	813	810	810	813	813
16	823	829	831	827	813	801	789	802	815	826	835	840	843	848	843
17	857	860	855	846	831	823	821	831	836	833	841	852	853	852	846
18	853	859	856	845	829	821	819	824	832	839	845	842	836	835	838
19	844	850	846	830	809	799	793	799	808	823	836	839	836	831	828
20	831	839	836	824	804	789	791	800	810	822	823	828	827	821	818
21	814	820	824	818	804	785	775	782	789	788	798	806	807	806	803
22	800	804	805	799	783	771	769	767	779	798	807	809	807	803	799
23	794	800	803	798	786	782	782	783	806	838	851	865	871	865	861
24	869	877	878	873	855	841	837	839	844	855	857	863	868	867	864
25	865	869	867	859	844	831	836	847	855	859	860	862	862	861	859
26	857	859	859	854	848	837	822	812	821	833	846	855	857	857	853
27	848	850	849	847	840	832	817	816	824	838	841	839	838	838	837
28†	836	838	842	841	835	833	832	833	841	851	858	856	847	837	832
29†	838	842	847	845	835	835	834	826	826	831	841	841	834	830	826
30	835	839	844	845	835	827	817	816	815	813	820	829	833	829	823
31	822	824	826	822	809	806	805	801	815	819	824	825	827	826	824
Mean . .	838	842	841	835	823	814	809	811	819	828	834	838	838	835	832
Mean† . .	835	839	839	835	825	820	816	814	819	825	833	836	834	830	827

AUGUST.

1	835	838	835	823	818	817	811	810	813	818	824	831	837	832	827
2	842	846	842	840	826	824	822	821	825	831	832	835	839	833	827
3	842	846	849	849	839	827	825	836	839	846	850	851	844	839	836
4	848	851	850	844	832	828	824	825	829	832	833	837	841	837	834
5	834	836	837	837	826	812	808	814	827	833	834	836	832	825	822
6§	824	830	832	822	809	797	§	§	§	§	§	§	§	§	§
7	835	842	851	845	826	813	811	816	823	821	832	842	846	844	844
8	845	853	859	853	839	824	813	818	826	826	830	838	837	837	836
9	847	850	849	845	835	831	826	828	834	836	836	837	837	837	836
10†	847	851	858	848	835	825	818	815	826	836	840	842	842	837	834
11	837	841	841	836	829	821	815	822	825	821	821	827	833	827	823
12	828	830	827	816	800	804	802	798	805	801	804	810	814	813	810
13	810	813	810	805	798	797	788	774	779	782	791	798	804	803	799
14	795	799	803	799	792	801	813	819	827	836	849	854	856	853	852
15	863	869	870	860	848	844	845	849	850	857	864	869	867	864	861
16†	866	871	868	858	848	846	847	852	856	862	861	865	866	861	859
17†	857	864	862	847	827	817	817	826	837	847	856	862	860	852	848
18†	847	851	852	849	837	829	826	832	844	849	852	857	857	850	844
19†	851	857	859	848	828	819	814	813	825	839	847	854	852	843	839
20	846	852	855	846	827	815	813	809	807	814	825	833	835	833	829
21	840	843	849	842	825	816	810	813	824	831	839	843	841	839	836
22	841	844	846	837	809	801	809	816	821	824	826	832	834	834	834
23	834	838	840	834	822	813	809	813	823	830	832	834	833	830	828
24	833	837	842	837	823	814	812	814	822	830	831	831	832	828	827
25	832	837	840	833	823	815	809	813	820	824	824	825	826	827	826
26	834	838	837	827	818	813	815	823	830	835	835	834	829	825	825
27	826	832	833	824	808	809	807	807	820	820	811	812	816	815	815
28	821	824	823	822	810	801	801	807	812	819	822	822	819	816	816
29	816	821	817	806	790	781	778	782	788	796	800	802	799	799	796
30	806	810	807	800	789	794	804	812	825	832	839	842	844	837	837
31	851	854	852	846	841	840	843	851	856	867	876	876	867	861	859
Mean§ . .	837	841	842	835	822	817	815	818	825	830	834	838	838	834	832
Mean† . .	850	856	857	848	833	825	822	826	837	846	851	856	856	849	845

†Five international quiet days.

§ V. F. Magnetograph under adjustment ; the day has been omitted for means.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

JULY. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
832	832	832	832	832	833	832	832	832	831	1 12	849	6 18	800	1
830	831	833	833	838	833	833	833	833	829	0 50	849	5 20	797	2
832	833	834	835	834	833	833	832	831	828	0 58	849	6 10	796	3†
831	831	833	834	834	833	831	829	830	832	2 18	847	5 48	809	4
824	825	825	829	830	828	829	826	827	822	1 1	849	6 22	791	5
828	828	830	830	829	829	827	827	828	828	9 14	844	5 2	804	6
814	815	817	817	818	818	818	817	816	816	0 34	836	6 36	782	7
804	806	807	807	806	807	808	806	805	808	1 30	825	6 14	799	8
852	855	857	860	862	863	864	864	864	833	23 40	867	6 0	782	9
861	863	863	864	865	866	865	865	864	865	10 8	873	6 44	855	10
854	854	855	855	856	855	854	853	853	853	1 38	870	6 20	834	11
843	844	844	844	845	844	843	842	841	844	2 44	864	7 24	826	12
827	827	826	827	827	827	827	826	826	826	1 0	847	7 20	805	13†
812	811	812	813	813	813	813	813	812	816	1 58	833	6 30	805	14†
813	813	814	814	814	814	815	814	814	811	1 10	831	7 14	787	15
844	847	849	851	851	852	852	849	849	835	21 17	854	5 58	786	16
848	849	848	848	848	848	848	847	846	844	1 2	862	5 50	820	17
839	839	841	841	840	839	838	837	837	838	0 54	861	6 2	818	18
830	832	832	832	833	831	832	832	830	827	0 54	851	6 18	791	19
821	821	823	822	821	820	820	819	819	818	1 8	841	5 30	786	20
806	807	809	807	807	807	807	805	805	803	1 48	824	5 42	775	21
800	802	805	806	806	805	804	802	801	797	10 50	808	6 54	765	22
865	868	870	872	873	873	873	873	873	840	24 0	875	6 56	780	23
865	866	870	871	870	870	870	869	869	863	1 25	881	5 41	836	24
860	861	863	865	866	866	867	866	867	859	1 18	870	4 50	830	25
851	850	852	853	853	854	854	854	854	847	1 51	862	7 14	811	26
835	836	837	838	839	839	839	839	839	837	1 12	851	6 34	813	27
832	832	831	832	831	831	832	832	832	837	10 10	859	6 42	830	28†
826	827	828	829	829	829	829	829	829	833	2 30	849	7 26	823	29†
822	822	821	820	819	819	819	819	820	825	2 46	848	8 38	812	30
825	827	828	829	830	830	831	831	830	823	21 18	833	6 54	795	31
833	834	835	836	836	836	836	835	835	831					Mean.
827	827	827	828	828	828	828	828	828	828					Mean.†

AUGUST.

829	830	832	832	832	831	831	831	833	827	1 9	840	6 18	808	1
833	833	834	836	833	834	833	834	833	833	1 2	848	6 14	820	2
837	838	839	839	839	838	837	839	837	840	11 6	853	5 26	822	3
834	836	836	836	835	835	835	834	834	835	1 8	854	5 46	821	4
823	825	826	827	826	826	825	825	824	827	2 26	839	5 34	806	5
§	§	812	818	823	826	829	830	832	§	..	..	..	..	6§
842	842	844	845	844	844	844	843	844	837	2 20	853	5 32	810	7
837	837	838	839	839	838	838	838	837	836	2 0	861	6 2	811	8
837	837	838	839	839	839	838	838	830	838	0 50	851	6 2	824	9
835	836	836	837	837	836	836	836	835	836	1 58	854	6 54	812	10†
824	825	827	827	828	829	829	828	828	827	1 38	843	5 50	813	11
813	812	812	813	813	813	814	813	813	811	1 6	833	6 56	796	12
798	798	800	800	801	799	800	800	799	797	0 58	815	6 50	773	13
854	856	860	862	864	863	864	864	864	839	19 36	867	3 56	791	14
863	865	867	868	868	869	867	869	870	862	1 34	872	5 6	842	15
861	862	862	862	862	862	863	862	863	860	1 12	873	5 40	844	16†
851	853	855	856	855	854	854	855	855	849	1 30	866	5 30	815	17†
845	846	847	847	848	847	847	847	847	846	11 32	860	6 10	825	18†
843	844	845	846	846	845	845	845	845	841	1 30	861	6 30	811	19†
832	834	835	837	837	838	839	839	841	832	2 0	856	8 0	806	20
837	839	841	842	841	842	844	843	843	836	1 58	849	6 30	807	21
829	832	835	833	834	833	834	834	835	829	1 56	847	5 2	800	22
829	826	827	829	830	830	831	830	829	828	1 34	841	5 40	808	23
826	826	827	827	827	827	827	828	828	827	2 24	843	6 44	812	24
827	829	830	831	832	832	833	833	833	827	1 44	841	6 20	809	25
825	827	828	828	828	829	828	829	828	828	1 28	841	5 18	811	26
816	819	820	820	822	824	824	821	825	818	1 40	835	6 52	803	27
817	817	815	812	814	815	817	817	817	815	1 24	829	5 24	796	28
799	799	801	802	801	805	803	802	804	799	1 6	823	5 18	776	29
839	842	843	844	846	845	847	850	850	829	23 44	852	3 48	787	30
858	857	857	856	857	857	858	858	859	857	10 58	877	5 22	838	31
834	834	835	836	836	836	836	836	836	832					Mean.§
848	849	850	851	851	851	851	851	852	846					Mean.†

* See footnote on page B-29.

†Five international quiet days.

‡ V. F. Magnetograph under adjustment : The day has been omitted for means.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

SEPTEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.)														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	857	863	861	849	835	829	825	829	841	857	866	865	856	850	854
2	854	861	859	846	827	820	814	822	832	843	854	857	853	847	848
3†	853	859	856	842	827	815	809	812	821	833	845	851	848	842	842
4	847	853	851	839	825	819	821	829	840	850	856	859	852	843	843
5	852	855	857	842	832	833	834	840	850	859	864	867	862	853	850
6	854	859	861	850	834	822	819	828	832	834	839	844	849	852	853
7	857	860	861	853	837	833	834	833	841	847	852	855	854	849	846
8	852	856	861	850	828	831	833	844	854	856	855	856	854	850	851
9	856	860	860	851	831	827	829	835	843	849	855	855	852	846	846
10†	856	859	856	840	822	816	825	844	854	864	864	859	854	851	850
11†	855	860	859	849	845	847	845	842	847	853	851	847	843	839	841
12	848	852	853	833	812	810	811	817	829	843	849	850	848	845	845
13	861	866	862	844	824	825	831	831	839	851	861	862	859	855	857
14	864	867	865	851	832	827	826	832	841	856	868	869	861	852	853
15	857	862	857	841	825	815	815	822	827	841	854	860	856	848	850
16†	853	855	856	847	827	816	816	818	829	846	855	854	847	839	839
17†	842	845	851	848	832	822	815	815	825	837	844	846	847	849	849
18	859	863	869	868	859	848	834	831	840	852	860	860	856	852	854
19	861	864	872	869	862	844	832	831	843	857	869	863	857	850	853
20	856	858	855	839	826	821	819	822	835	842	848	847	841	840	845
21	845	847	848	832	809	812	808	811	819	834	843	841	834	832	834
22	829	830	835	837	834	824	816	809	813	821	829	825	821	824	823
23	827	828	829	823	814	807	810	809	813	824	826	830	826	820	821
24	819	822	820	811	804	795	791	791	800	810	814	813	811	812	811
25	813	816	818	811	798	795	793	806	822	841	851	854	846	843	842
26	850	853	852	838	813	812	817	824	837	851	853	847	840	840	843
27	845	849	853	842	824	819	816	818	826	840	848	847	841	837	840
28	845	849	852	845	826	819	817	821	826	836	843	841	836	831	836
29	840	842	841	828	810	805	806	813	817	827	837	837	829	827	832
30	845	850	857	839	821	818	817	820	830	840	841	839	836	834	836
Mean . .	848	852	853	842	827	821	819	823	832	843	850	850	846	842	843
Mean† . .	851	855	855	845	829	822	821	826	835	847	852	851	848	844	844

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1	843	845	851	841	825	817	815	821	832	844	848	843	837	835	837
2	843	848	847	831	813	806	803	808	820	833	839	840	835	834	833
3	843	848	854	847	837	827	822	823	831	837	839	838	837	839	837
4	848	853	857	846	829	825	819	816	823	836	842	843	841	839	837
5	847	848	853	846	835	831	829	831	839	845	847	843	838	838	837
6†	847	848	850	843	828	824	819	812	821	830	830	828	825	828	826
7	827	827	832	829	826	826	821	816	818	826	829	829	824	823	824
8	821	824	830	828	815	799	793	791	797	810	814	813	810	811	812
9	808	813	818	812	795	780	774	782	793	799	803	803	800	799	800
10	802	804	806	799	785	786	800	809	826	842	851	852	849	851	855
11	856	858	861	857	847	840	832	825	835	849	856	858	859	861	862
12	859	863	869	866	853	829	824	827	842	857	867	867	859	859	861
13†	855	859	865	860	847	833	827	827	833	846	858	858	854	853	855
14†	853	855	855	846	835	825	816	818	831	843	849	847	841	840	841
15	840	844	849	836	826	820	817	827	836	841	848	847	845	846	849
16	852	855	857	856	851	841	839	831	844	857	860	861	854	853	854
17	854	857	863	861	854	841	831	829	834	842	843	846	844	843	845
18	849	855	858	853	839	828	818	818	829	837	843	845	840	839	840
19	845	847	847	843	831	823	816	818	825	831	836	840	838	836	834
20	832	834	837	832	819	805	799	805	817	822	825	828	826	825	822
21	821	821	828	826	823	817	811	811	814	815	815	815	814	814	816
22	809	810	814	813	800	788	778	779	787	794	794	794	794	796	797
23	795	798	799	794	788	797	807	815	829	838	839	839	839	843	846
24	852	852	854	852	847	851	851	856	865	866	864	859	856	861	858
25	862	863	866	866	856	848	845	854	864	864	863	859	855	855	856
26†	861	861	863	860	857	851	847	856	859	857	860	862	861	861	861
27	857	859	863	862	849	837	839	843	846	846	847	850	847	849	853
28†	857	852	856	853	846	839	835	839	844	851	852	847	843	844	846
29	851	850	855	854	843	827	813	811	816	817	815	818	819	819	819
30	823	820	823	826	827	823	819	824	831	830	826	826	825	826	827
31	830	829	829	828	823	819	815	818	821	824	824	824	825	825	825
Mean . .	840	842	845	841	831	823	819	821	829	836	840	839	837	837	838
Mean† . .	850	851	854	849	840	832	826	828	836	844	849	848	844	846	847

†Five international quiet days.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

SEPTEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.).									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
852	854	855	855	857	858	859	858	859	852	10 30	868	5 38	823	1
849	850	852	852	853	853	853	853	855	846	1 8	864	5 50	813	2
845	847	845	847	848	849	849	850	850	841	1 10	861	5 50	808	3†
844	846	846	847	848	847	848	848	849	844	10 38	859	5 2	817	4
852	853	852	853	855	855	855	855	855	851	11 16	868	3 47	830	5
846	848	849	851	853	852	853	856	855	846	13 34	862	5 40	816	6
846	848	848	849	850	850	850	849	851	848	1 42	862	6 48	832	7
851	852	854	854	852	854	853	853	854	850	1 52	862	4 18	826	8
845	847	848	848	849	848	850	850	850	847	1 20	864	5 12	825	9
850	851	852	852	852	853	853	853	853	849	9 22	866	5 5	814	10†
841	843	843	845	845	846	845	845	844	846	1 30	862	13 2	839	11†
846	849	849	849	849	850	851	850	851	841	1 42	857	5 40	809	12
859	861	862	863	863	861	862	860	860	853	1 18	869	4 23	820	13
855	856	858	858	858	857	857	858	856	853	10 58	870	5 52	824	14
853	854	855	855	854	854	855	854	854	846	1 10	865	5 10	813	15
840	842	842	842	842	842	842	841	841	840	1 44	857	5 10	815	16†
850	852	854	857	858	858	858	859	859	845	2 10	853	6 30	813	17†
857	861	858	860	861	861	862	862	861	**856**	2 13	870	6 44	828	18
856	855	857	858	860	859	859	858	859	856	2 16	**875**	6 36	829	19
848	846	847	850	851	851	851	850	849	843	1 10	859	6 10	817	20
835	836	837	837	838	838	837	837	837	832	1 44	851	6 18	804	21
824	827	826	828	826	827	826	826	826	825	3 26	839	7 18	807	22
822	824	824	827	823	823	823	827	824	822	11 12	832	5 6	805	23
816	810	813	815	813	817	815	813	811	**810**	1 36	824	6 17	789	24
846	849	849	851	852	851	852	851	852	834	11 0	859	5 30	**789**	25
844	845	845	845	845	844	844	845	847	840	1 18	855	4 36	811	26
842	841	842	845	843	843	843	843	843	839	2 0	856	6 20	814	27
836	838	839	839	839	839	840	839	840	836	1 30	853	5 38	815	28
834	835	835	837	836	834	837	837	836	830	1 30	844	5 22	803	29
839	840	840	841	841	840	839	837	839	837	1 50	859	6 14	817	30
844	845	846	847	847	847	847	847	847	842					Mean.
846	847	848	849	850	850	850	850	851	844					Mean.†

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837	837	839	840	839	839	839	839	839	837	2 2	853	5 42	814	1
835	837	839	841	842	841	840	839	838	833	1 36	851	6 12	802	2
837	839	841	842	843	842	842	841	840	839	1 48	855	6 30	820	3
838	839	840	842	843	843	842	842	841	839	1 48	859	6 46	815	4
838	839	840	841	841	841	841	840	840	840	1 50	855	6 32	828	5
826	826	827	827	827	827	827	826	826	**829**	1 50	851	6 50	**811**	6†
824	825	825	826	826	826	826	825	825	825	2 18	833	7 16	816	7
812	814	814	815	814	813	813	812	811	812	2 14	832	7 10	790	8
803	801	801	803	805	805	804	804	803	800	1 58	819	5 56	**773**	9
858	860	858	859	859	859	859	860	859	836	21 6	861	4 14	781	10
864	864	865	866	866	867	867	867	867	856	20 2	869	6 48	823	11
861	862	864	865	864	865	863	863	863	857	2 14	**871**	6 18	823	12
855	856	857	857	857	857	857	856	856	851	2 18	866	6 34	825	13†
841	842	843	843	842	841	841	840	837	840	1 46	858	6 16	814	14†
850	848	850	849	851	851	851	849	851	843	19 22	856	5 50	815	15
855	857	855	855	855	855	854	853	852	852	10 58	862	7 6	832	16
842	845	845	847	846	845	843	845	843	845	2 14	865	6 30	827	17
841	841	842	842	842	841	840	839	838	840	1 38	860	6 22	816	18
836	836	836	837	837	836	835	834	833	834	2 2	849	6 16	813	19
824	827	831	825	824	822	823	829	824	823	2 10	838	6 20	798	20
816	815	815	816	815	816	815	815	814	816	2 37	831	6 14	808	21
797	799	798	800	800	798	799	798	796	**793**	2 6	816	6 42	775	22
849	849	849	853	853	854	855	852	854	832	21 4	856	3 46	784	23
861	862	862	863	861	861	862	860	859	858	8 24	867	3 37	849	24
857	855	857	857	858	858	858	857	857	858	2 40	867	5 42	844	25
861	861	860	860	859	858	858	857	857	**859**	2 8	863	5 54	846	26†
855	853	855	856	855	854	853	852	857	851	2 22	864	5 30	837	27
846	846	845	845	843	842	841	841	840	845	2 6	857	5 54	835	28†
819	819	818	818	817	817	817	816	815	824	2 42	857	6 30	809	29
828	829	827	828	827	826	825	825	825	826	8 18	833	5 38	817	30
825	825	827	827	826	825	825	824	823	824	1 52	831	6 6	815	31
839	839	839	840	840	839	839	839	838	836					Mean.
847	848	848	849	849	848	848	848	847	845					Mean.†

* See footnote on page B-29.

† Five international quiet days.

NOVEMBER. (Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.) 17000 γ PLUS TABULAR QUANTITIES.

Date.	Hours (G. M. T.).														
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
1	832	830	836	840	836	825	817	824	829	829	827	825	829	831	831
2	834	831	833	834	827	820	813	819	829	830	831	833	832	833	836
3	831	830	836	838	838	832	820	821	825	821	819	824	827	827	828
4	831	831	833	836	832	832	825	826	828	830	831	833	833	833	832
5	824	824	827	824	819	827	842	850	863	870	872	877	883	884	887
6†	886	886	888	887	878	874	868	875	885	883	880	880	878	878	879
7	869	868	865	857	855	855	855	862	869	870	868	865	861	860	860
8§	845	844	845	843	834	§	§	§	§	§	§	§	§	§	829
9†	834	834	838	840	839	840	842	843	843	844	843	843	843	845	847
10†	844	844	848	853	848	840	829	825	833	837	842	847	847	849	850
11	845	846	847	853	851	844	838	834	835	835	838	846	849	849	849
12	838	837	838	843	845	837	838	840	839	839	835	841	845	848	847
13	850	849	852	855	853	855	865	858	861	858	855	856	854	853	855
14	854	852	852	854	853	852	853	856	854	852	853	854	857	856	855
15	857	854	855	854	852	849	849	852	855	851	848	849	847	850	847
16	847	847	847	848	843	843	842	850	850	838	839	846	845	847	846
17	843	840	842	844	839	834	830	835	841	838	839	836	833	834	829
18	826	824	825	828	824	819	815	819	821	816	815	819	818	815	813
19	807	806	805	808	805	806	807	811	817	822	825	831	833	834	833
20	831	832	832	837	840	835	831	832	832	827	827	833	836	834	835
21	833	833	835	837	836	832	822	828	830	828	829	835	834	831	830
22†	827	825	823	827	829	826	827	830	825	819	830	840	839	836	836
23	833	832	834	839	843	842	840	844	853	854	849	847	847	849	848
24†	848	847	846	850	858	853	848	856	867	861	856	856	856	855	855
25	849	849	851	858	858	851	845	846	848	840	841	848	852	851	851
26	844	844	843	849	847	839	835	837	840	841	843	848	852	851	851
27	853	851	851	856	861	857	850	850	852	851	850	850	853	853	851
28	843	840	839	845	843	834	830	829	831	835	834	835	834	831	830
29	831	826	826	839	845	840	829	833	831	826	823	921	820	823	824
30	827	824	820	826	823	818	815	815	819	820	822	824	820	818	819
Mean§ .	840	839	840	843	842	838	835	838	841	840	840	843	843	843	843
Mean† .	848	847	849	852	851	847	843	846	851	849	850	853	853	853	854

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1	820	820	817	824	825	819	810	805	803	798	805	815	814	813	813
2	816	814	812	818	823	823	822	823	827	819	809	810	816	815	815
3	812	812	811	817	825	826	824	823	825	822	819	816	819	821	819
4	816	816	816	820	823	830	832	829	827	824	823	823	823	827	827
5†	828	828	828	831	836	838	837	828	827	827	823	830	837	836	836
6	831	831	831	836	842	847	852	853	850	842	836	833	839	839	838
7†	833	832	833	836	837	837	838	833	831	834	830	827	832	833	833
8	817	816	815	817	809	812	821	827	826	812	801	804	811	812	812
9	799	803	804	805	811	817	826	829	827	818	801	797	801	803	802
10	795	795	794	796	803	811	813	815	816	815	813	816	821	825	825
11	827	827	829	835	843	845	843	837	834	826	820	827	834	835	837
12†	834	835	835	839	845	847	849	843	837	834	828	832	840	840	841
13	836	836	833	842	853	857	853	843	835	828	827	828	836	838	837
14	830	828	829	833	843	839	839	838	836	833	829	828	839	829	833
15	823	823	822	827	841	845	846	842	843	842	838	834	832	830	830
16	820	821	823	822	820	821	822	821	821	819	814	818	823	823	822
17	815	815	817	817	821	818	818	821	824	824	817	820	823	822	822
18	822	822	821	824	829	830	831	837	838	835	827	833	838	837	835
19	832	833	835	834	832	831	830	833	835	836	835	838	840	842	843
20	836	836	835	837	841	837	840	841	843	850	849	845	843	843	841
21†	840	840	838	842	848	850	846	839	845	848	842	840	840	842	839
22	837	837	836	837	837	836	838	840	843	845	846	843	841	839	838
23†	833	833	830	832	835	834	835	833	830	825	820	822	825	823	822
24	813	814	813	815	821	826	824	813	809	805	801	805	810	811	812
25	812	812	813	821	827	828	823	819	817	813	810	813	817	816	817
26	816	816	816	816	822	825	825	820	815	813	812	821	828	829	829
27	827	829	824	828	837	838	834	827	829	835	836	835	833	832	831
28	828	828	825	829	833	835	833	826	822	818	818	824	828	830	828
29	827	828	826	833	843	841	829	824	834	835	835	833	830	832	835
30	836	836	833	836	838	832	828	829	828	831	841	843	841	840	841
31	838	836	835	832	839	839	843	844	845	840	840	848	852	847	847
Mean .	824	824	823	827	832	833	832	830	830	827	824	826	829	829	829
Mean† .	830	830	830	834	838	839	839	833	833	833	828	830	835	835	835

†Five international quiet days.
§Adjustment of V. F. Magnetograph; the day has been omitted for means.

(Averages for periods of sixty minutes centred at the full hour of Greenwich mean time.)

NOVEMBER. 17000 γ PLUS TABULAR QUANTITIES.

Hours (G. M. T.)									Mean.*	Maximum.		Minimum.		Date.
15	16	17	18	19	20	21	22	23		Time.	Mag.	Time.	Mag.	
γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	H. M.	γ	H. M.	γ	
833	833	835	834	834	833	832	830	830	831	3 22	841	5 58	815	1
837	838	839	839	839	839	838	836	836	832	19 16	840	6 4	811	2
828	828	829	830	830	830	829	827	827	828	4 12	840	6 30	817	3
831	832	833	834	833	831	833	831	830	831	3 42	837	6 20	822	4
889	890	891	894	893	892	892	891	890	868	18 20	895	3 42	817	5
879	879	878	877	876	876	874	873	873	878	1 54	889	5 50	867	6†
860	859	857	857	856	855	853	852	852	860	8 24	871	4 0	852	7
832	834	836	839	839	839	840	840	841	§	.. ..	..	.. ..	..	8§
847	847	849	850	849	848	847	847	847	844	13 14	851	0 4	834	9†
850	849	849	850	850	849	849	848	848	845	3 20	854	6 42	823	10†
851	850	850	850	849	849	849	848	847	846	3 40	855	7 20	833	11
849	850	851	850	850	851	850	849	848	844	19 48	852	5 16	834	12
855	857	857	857	857	856	853	853	853	855	8 20	863	1 32	847	13
854	853	853	853	853	851	850	848	849	853	12 42	859	22 40	846	14
847	847	846	845	844	843	840	839	838	848	0 0	857	22 34	837	15
844	845	843	840	842	839	839	837	838	843	7 54	854	22 12	835	16
830	830	829	829	827	826	823	824	822	833	2 42	845	23 58	819	17
811	809	809	803	807	805	803	805	803	815	3 20	831	23 30	801	18
832	833	834	835	834	833	834	833	832	823	12 2	835	1 20	803	19
835	834	835	836	836	836	835	834	834	834	3 52	841	9 24	826	20
830	830	830	830	829	829	828	828	829	831	3 26	838	6 10	819	21
836	836	836	837	837	837	837	837	838	832	11 18	842	8 48	817	22†
849	849	850	851	852	852	852	852	853	847	8 48	856	1 32	832	23
854	853	852	851	851	851	850	850	850	853	8 16	869	1 50	845	24†
851	850	847	849	848	847	846	845	844	848	3 12	860	9 22	837	25
852	852	853	853	852	851	851	850	850	847	11 58	854	5 38	834	26
851	850	849	847	846	845	844	843	842	850	4 20	862	23 58	840	27
830	831	833	829	829	828	827	825	824	833	3 42	848	23 30	823	28
825	824	826	825	825	824	821	821	821	827	4 28	848	23 30	819	29
819	819	820	821	820	819	818	817	816	820	3 40	827	6 18	813	30
843	843	844	843	843	842	841	841	840	841					Mean§.
853	853	853	853	852	852	851	851	851	851					Mean.†

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814	813	814	816	817	816	816	815	815	814	3 44	827	8 54	796	1
815	815	815	816	817	815	814	813	813	816	7 54	828	10 26	806	2
819	819	819	819	819	819	818	817	818	819	4 46	828	1 50	809	3
827	827	828	829	830	829	829	829	829	826	5 26	833	1 40	814	4
836	836	836	837	837	837	837	836	836	833	5 20	840	10 10	822	5†
837	836	836	836	836	835	835	833	833	838	6 30	854	1 50	830	6
831	830	829	828	827	826	825	824	824	831	5 46	839	23 50	823	7†
813	812	811	811	809	807	804	799	798	811	7 36	831	21 24	792	8
801	802	800	800	800	799	800	798	797	806	6 30	830	10 50	795	9
825	827	829	828	829	830	830	828	828	818	20 4	831	2 30	793	10
836	837	837	837	837	836	836	835	835	835	4 42	845	9 58	818	11
842	839	840	841	840	839	839	839	839	839	6 6	850	10 14	826	12†
837	837	839	839	836	836	834	833	830	838	5 0	858	10 38	825	13
834	835	839	837	833	833	832	835	832	834	3 56	844	10 50	825	14
828	828	829	829	828	829	826	824	823	832	5 50	849	0 40	820	15
822	823	821	820	818	819	817	819	818	820	11 56	827	10 10	813	16
822	825	820	821	821	824	824	823	822	821	8 40	827	10 10	814	17
833	833	833	833	833	832	832	832	832	831	13 44	840	2 10	819	18
840	840	841	841	841	840	841	839	839	837	13 38	845	5 50	830	19
841	839	839	838	838	838	838	838	837	840	9 44	852	1 50	834	20
839	839	838	839	838	837	838	838	839	841	8 50	851	1 52	837	21†
836	835	834	833	832	831	831	829	829	837	9 30	848	1 50	835	22
822	821	819	818	818	817	815	813	812	824	6 0	836	23 40	811	23†
812	811	811	811	811	811	811	810	810	812	5 30	828	9 40	800	24
818	818	817	818	818	818	817	815	814	817	4 50	829	10 18	809	25
828	829	829	830	829	831	826	825	825	823	19 46	833	9 46	811	26
831	831	831	830	829	830	827	826	826	831	4 16	839	2 26	822	27
828	828	829	830	827	828	825	824	821	827	5 24	836	9 20	816	28
835	836	837	837	838	838	8 8	837	836	834	4 30	844	6 50	821	29
840	841	841	842	841	840	838	838	837	837	11 40	844	6 30	826	30
847	846	846	845	845	845	845	842	839	843	11 24	852	2 44	832	31
829	829	829	829	828	828	827	826	825	828					Mean.
835	834	834	834	834	834	833	833	833	834					Mean.†

*See footnote on page B-29.
†Five international quiet days.
§ Adjustment of V. F. Magnetograph ; the day has been omitted for means.

At Colaba, a day is classed as (1) a quiet day, or a day of (2) small, (3) moderate, (4) great or (5) very great disturbance, the letters for distinguishing each class being C, S, M, G and VG respectively. For representing intermediate conditions of activity of the smaller period movements, sub-classifications Ca, Sa and Ma are used. Roughly speaking a storm having a range over 225 γ in the variation of the horizontal force during the first twenty-four hours after its commencement is classed as "Very Great". It is "Great" if the range is between 150 γ and 225 γ, "Moderate" if the range is between 65 γ and 150 γ and "Small" if the range is less than 65 γ. The range is however not the only criterion used in assigning the character of a storm. The oscillations in the magnetograms are duly taken into account in determining the class to which a particular storm should belong. During the year there was one day of "Great", 36 of "Moderate" and 179 of "Small" disturbances. No storm of "Very Great" intensity was recorded during the year. The following table gives a list of principal disturbances recorded during the year. Of the smaller disturbances, only those which showed special features have been included in this table.

PRINCIPAL MAGNETIC DISTURBANCES, 1932.

Date.	Time of beginning. G. M. T.	Duration in hours.	Horizontal force during storm.				Range.	Relative magnitude.	Remarks.
			Maximum.		Minimum.				
			Time.	Magnitude.	Time.	Magnitude.			
	H. M.		D. H. M.	γ	D. H. M.	γ	γ		
January 1	8 30	42	1 7 10	37371	2 16 30	37321	50	S	Commencement gradual.
„ 7	16 10	76	8 5 54	37410	8 18 20	37313	97	Sa	Commencement sudden.
„ 11	4 30	45	12 7 4	37385	11 20 0	37322	63	Sa	Commencement gradual.
„ 24	4 30	119	25 5 30	37397	27 15 12	37292	105	M	Do.
February 2	19 34	78	3 2 15	37394	3 14 18	37284	110	Ma	Commencement sudden.
„ 10	5 30	20	10 6 6	37388	10 16 58	37314	74	M	Commencement gradual.
„ 11	7 30	20	11 16 56	37376	11 18 10	37322	54	Sa	Do.
„ 18	16 30	54	20 6 24	37406	20 15 44	37317	89	M	Do.
„ 22	5 30	88	22 7 8	37392	24 11 40	37308	84	Sa	Do.
March 2	5 30	234	2 8 6	37427	3 11 14	37299	128	M	Do.
„ 18	0 46	25	18 4 38	37412	18 16 46	37317	95	M	Commencement sudden.
„ 20	21 30	95	24 6 30	37388	21 13 12	37307	81	Sa	Commencement gradual.
„ 27	17 50	100	28 5 38	37387	31 11 18	37247	140	M	Commencement sudden.
April 1	2 30	70	1 5 33	37369	2 10 44	37283	86	Sa	Commencement gradual.
„ 6	14 30	35	7 5 46	37370	7 10 30	37296	74	M	Do.
„ 13	7 30	38	13 12 42	37384	13 17 8	37309	75	M	Do.
„ 22	5 30	163	22 6 10	37420	23 11 58	37289	131	Ma	Commencement sudden.
May 4	6 5	62	4 6 24	37395	5 16 33	37305	90	Sa	Do.
„ 29	6 30	35	29 6 36	37387	30 6 6	37223	164	Ma	Commencement gradual.
June 20	8 30	13	20 9 2	37402	20 17 18	37310	92	Sa	Do.
July 4	3 30	60	5 5 14	37430	6 14 30	37307	123	Sa	Do.
„ 16	4 30	23	16 6 18	37431	16 13 49	37281	150	M	Do.
August 1	15 30	77	3 6 8	37412	3 12 20	37305	107	M	Do.
„ 27	4 30	91	27 6 12	37405	28 9 28	37293	112	Ma	Do.
September 6	2 16	21	6 5 10	37425	6 13 50	37262	163	Ma	Commencement sudden.
„ 7	20 30	53	8 4 45	37393	8 13 18	37343	50	S	Commencement gradual.
„ 23	2 30	118	23 21 10	37387	25 13 36	37289	98	M	Do.
October 14	17 49	49	15 6 52	37459	15 13 16	37265	194	Ma	Commencement sudden.
„ 20	11 30	30	20 22 16	37372	20 18 0	37292	80	M	Commencement gradual.
„ 22	2 30	44	23 7 4	37399	22 17 0	37330	69	Sa	Do.
November 1	2 30	31	1 2 48	37399	1 7 14	37338	61	S	Do.
„ 14	1 30	23	14 5 46	37421	14 16 0	37339	82	Sa	Do.
„ 15	12 30	60	15 18 4	37409	16 14 18	37333	76	Sa	Do.
„ 25	5 9	22	25 5 58	37460	25 15 42	37370	90	Sa	Commencement sudden.
„ 28	10 30	38	29 6 24	37445	28 13 14	37351	94	Sa	Commencement gradual.
December 8	3 7	41	8 3 30	37439	9 13 54	37349	90	M	Commencement sudden.
13	1 30	93	14 7 2	37426	14 17 52	37275	151	G	Commencement gradual.
„ 25	5 47	63	27 6 46	37438	26 20 30	37362	76	M	Commencement sudden.

Fourier analysis of the diurnal and annual variations of Horizontal Force for the five International quiet days during 1932.

Diurnal variation: $\triangle H = c_1 \sin(\theta + \varphi_1) + c_2 \sin(2\theta + \varphi_2) + \ldots\ldots$; θ is counted at the rate of 15° per hour from midnight to midnight (G. M. T.).

Annual variation: $\triangle H = c_1 \sin(\theta + \varphi_1) + c_2 \sin(2\theta + \varphi_2) + \ldots\ldots$; θ is counted at the rate of 30° per average month.

Quantity.	Diurnal Variation.												Annual Variation.
	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.	
	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ	γ
c_1	11·5	12·7	18·8	11·7	14·4	15·9	17·6	17·7	11·1	12·2	13·6	7·3	7·5
c_2	3·9	5·0	9·4	5·8	7·4	7·6	9·5	8·7	5·7	6·6	5·4	4·1	1·4
c_3	1·8	2·0	4·5	3·5	1·6	1·5	2·5	2·1	2·8	3·4	2·5	0·7	1·8
c_4	1·5	1·2	1·0	1·8	1·0	1·1	0·4	0·1	0·7	2·5	1·0	0·3	1·4
c_1/c_2	2·9	2·5	2·0	2·0	1·9	2·1	1·9	2·0	1·9	1·8	2·5	1·8	5 4
	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
φ_1	351 21	342 47	357 4	341 36	350 6	350 28	352 19	345 22	348 55	351 49	359 47	5 22	159 21
φ_2	256 34	226 18	259 10	235 15	240 51	260 35	248 0	241 19	241 51	242 7	261 34	266 46	55 38
φ_3	184 49	121 49	170 7	146 35	138 4	184 34	167 30	145 51	167 20	154 38	191 27	176 29	267 46
φ_4	58 46	44 18	97 48	77 16	85 47	200 18	204 41	16 42	78 32	50 48	142 34	254 56	311 9

Mean values for periods of sixty minutes centred at the full hour of Greenwich Mean Time.

Date.	January.				February.				March.			
	3 h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.
1	..	70	65	133	102	102	54	54	117	131	95	181
2	107	130	91	159	95	71	76	129	258	85	95	240
3	130	265	61	157	135	70	75	156	184	412	191	177
4	132	154	73	161	103	56	89	126	174	121	80	164
5	194	80	96	118	131	61	61	177	285	89	75	119
6	110	41	130	146	122	54	81	129	183	106	81	204
7	111	80	56	128	127	106	76	57	191	87	..	..
8	76	103	44	118	109	51	81	117	..	..	125	204
9	83	160	70	133	300	52	91	185	106	76	76	37
10	102	72	104	149	198	43	82	123	181	68	117	95
11	97	132	93	156	142	61	109	138	185	60	102	122
12	111	175	161	151	91	49	61	127	245	34	106	191
13	205	191	125	93	129	57	..	..	230	41	85	88
14	83	126	72	98	..	..	78	108	157	89	68	133
15	112	85	118	165	283	51	93	102	259	82	61	82
16	79	55	112	176	89	68	106	172	217	75	78	119
17	92	47	129	166	106	76	108	108	170	80	76	57
18	100	217	139	219	91	99	110	95	70	49	61	68
19	213	49	106	125	63	68	78	146	117	78	75	30
20	100	142	111	184	124	185	119	194	116	45	83	153
21	105	85	116	161	197	123	184	260	82	41	61	58
22	139	64	116	188	226	116	140	213	185	54	80	46
23	132	247	142	153	123	115	82	167	144	44	75	68
24	111	111	144	118	111	102	71	110	197	41	82	116
25	100	234	132	149	117	106	53	77	78	21	58	117
26	111	227	106	155	68	82	75	106	116	48	62	54
27	115	129	118	203	93	51	84	258	103	65	55	82
28	118	82	132	85	149	95	95	244	79	156	61	..
29	142	137	95	256	300	112	68	191	..	63	85	129
30	113	159	158	141					133	7	93	102
31	113	95	51	66					181	75	71	95
Mean (*a*)	118	127	105	149	140	81	89	145	163	81	84	115
Mean (*b*)	118	127	105	149	140	81	89	145	163	81	84	115
	Mean (*a*) 125; Mean (*b*) 125.				Mean (*a*) 114; Mean (*b*) 114.				Mean (*a*) 111; Mean (*b*) 111.			

Date.	July.				August.				September.			
	3 h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.
1	97	33	110	102	162	47	178	168	64	72	69	219
2	78	29	104	54	152	—5	152	183	281	—119	205	113
3	319	94	91	70	152	100	157	205	319	42	163	106
4	227	183	103	70	147	121	152	204	—701	142	—1381	—2358
5	164	183	—543	23	121	152	204	152	142	135	170	177
6	0	47	122	61	47	204	..	..	142	212	219	212
7	—5	—338	150	9	..	..	136	147	212	149	191	78
8	—9	—131	141	122	115	147	147	241	78	177	212	170
9	23	—385	159	—5	152	157	136	110	156	163	102	88
10	—108	23	41	—23	131	94	79	..	29	81	48	177
11	14	113	191	170	162	157	..	..	142	113	97	91
12	75	53	239	261	..	..	..	..	84	86	109	96
13	128	154	213	154	..	131	147	84	84	69	88	75
14	176	149	186	43	100	63	162	173	106	69	142	156
15	101	160	213	181	21	115	115	141	177	106	135	106
16	207	154	186	138	110	168	131	157	120	51	83	94
17	96	133	181	181	105	110	..	63	89	65	—198	85
18	160	160	165	138	84	89	147	105	177	127	212	103
19	133	101	186	202	100	105	105	59	86	82	99	62
20	149	117	202	191	68	100	84	31	99	101	104	123
21	138	154	96	144	356	115	157	79	79	75	79	102
22	133	154	0	191	251	..	114	88	55	75	95	91
23	122	144	154	96	220	76	—1719	46	69	82	113	113
24	106	165	106	5	105	121	105	79	95	90	89	117
25	53	117	106	160	126	105	83	57	129	86	117	102
26	5	53	197	213	129	83	99	75	93	75	82	99
27	186	101	154	112	171	91	114	203	106	62	19	144
28	160	106	91	125	190	87	99	189	138	69	217	425
29	110	88	106	128	248	123	1297	105	241	127	311	241
30	133	160	117	160	235	52	289	95	78	69	259	212
31	5	112	176	191	99	87	121	102				
Mean (*a*)	118	116	143	127	146	111	181	124	127	98	137	137
Mean (*b*)	103	77	121	118	146	107	111	124	99	91	75	54
	Mean (*a*) 126; Mean (*b*) 105.				Mean (*a*) 141; Mean (*b*) 122.				Mean (*a*) 125; Mean (*b*) 80.			
Mean of monthly hourly means.	Hours G. M. T.											
	0	1	2	3	4	5	6	7	8	9	10	11
Wet Period May to October.	97	105	117	104	95	90	102	93	90	82	95	93
Dry Period November to April.	112	119	124	129	130	125	110	102	99	90	82	80

(*a*) Mean from all positive readings.
(*b*) Mean from all complete days using both positive and negative readings.

Mean values for periods of sixty minutes centred at the full hour of Greenwich Mean Time.

April.				May.				June.				Date.
3 h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.	
154	68	104	67	88	61	67	71	60	60	61	61	1
161	75	107	107	229	51	52	61	5	64	83	73	2
91	94	77	81	135	54	81	44	40	67	89	107	3
97	67	60	71	145	67	88	40	75	—137	74	84	4
62	67	65	20	67	80	102	57	59	67	73	101	5
128	34	67	60	75	100	109	83	81	78	87	94	6
143	41	..	..	71	91	105	48	87	81	90	91	7
..	52	67	51	74	82	71	64	75	81	90	81	8
158	58	57	38	67	84	82	67	85	101	93	94	9
77	32	35	45	64	..	..	47	88	87	89	95	10
48	48	37	64	102	71	88	135	..	74	..	..	11
46	47	46	27	73	51	60	90	..	..	76	87	12
40	80	61	73	98	64	88	35	80	68	101	121	13
108	81	54	48	..	69	94	40	102	104	93	104	14
54	59	80	77	103	62	63	53	100	81	100	90	15
107	64	85	64	55	47	67	26	134	115	69	55	16
93	54	83	48	63	67	70	67	127	89	81	131	17
114	57	58	48	42	67	67	84	135	78	83	66	18
181	50	74	42	64	47	37	48	102	67	158	0	19
50	50	57	44	61	74	48	84	82	93	69	103	20
113	53	67	33	47	47	—411	179	58	107	108	82	21
134	30	67	50	81	94	67	51	65	—23	3	—144	22
121	46	64	59	47	107	75	90	65	82	—154	120	23
95	63	54	39	67	67	77	92	—175	—374	161	27	24
48	67	54	34	67	98	100	118	75	84	82	97	25
48	67	54	34	108	91	108	73	125	13	100	119	26
74	46	57	30	88	67	74	80	81	81	86	100	27
108	..	80	49	59	74	74	73	121	102	97	127	28
223	7	87	61	67	61	79	61	101	113	107	114	29
101	..	57	75	60	58	71	61	82	108	94	118	30
				43	53	62	47					31
103	56	66	53	80	70	77	70	87	83	89	91	Mean (*a*)
103	56	66	53	80	70	61	70	77	55	81	83	Mean (*b*)
Mean (*a*) 69 ; Mean (*b*) 69.				Mean (*a*) 74 ; Mean (*b*) 70.				Mean (*a*) 87 ; Mean (*b*) 74.				

October.				November.				December.				Date.
3 h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.	3 h.	9 h.	15 h.	21 h.	
142	65	135	64	111	111	138	151	113	169	148	146	1
Z—	73	75	61	109	42	187	182	113	183	98	151	2
103	51	75	52	166	144	87	182	77	151	106	116	3
95	75	96	110	291	55	237	151	94	81	149	132	4
189	56	123	91	127	121	65	106	126	..	..	..	5
129	117	106	77	76	55	110	93	..	..	99	141	6
95	51	144	—1947	75	76	119	111	120	51	101	114	7
144	103	51	118	123	95	125	186	198	..	141	218	8
180	47	113	85	105	55	150	186	85	58	144	141	9
92	55	237	111	128	88	245	144	106	99	74	125	10
86	113	101	129	99	102	202	150	113	123	135	91	11
79	61	79	132	131	126	170	85	81	..	127	91	12
99	69	89	106	117	47	158	158	95	42	112	115	13
157	55	72	106	137	217	237	293	137	168	141	141	14
117	158	115	104	142	79	176	225	93	197	113	187	15
93	73	28	82	131	170	194	138	121	..	132	197	16
69	72	75	311	105	95	79	189	113	108	135	110	17
111	117	60	78	127	263	119	202	95	120	148	130	18
63	206	154	Z+	131	79	125	182	85	163	158	147	19
130	77	—519	—923	348	89	203	150	75	208	73	193	20
129	95	—1452	Z+	118	72	154	115	141	85	90	132	21
88	57	95	2770	99	87	166	128	..	91	99	123	22
133	78	106	142	126	87	..	..	113	135	95	116	23
106	67	69	—954	..	111	312	142	109	58	116	184	24
147	72	—2420	77	109	151	149	147	130	49	85	124	25
219	129	39	—140	285	65	77	237	86	67	143	127	26
78	234	347	142	206	141	130	198	161	88	177	158	27
212	127	123	302	141	166	75	152	134	27	65	161	28
99	135	214	202	108	85	93	223	141	—341	168	163	29
135	59	116	123	119	107	111	Z±	211	0	104	127	30
95	82	158	127					120	98	97	116	31
121	91	114	228	131	106	151	165	117	105	119	141	Mean (*a*)
121	91	—39	60	131	106	151	165	117	88	119	141	Mean (*b*)
Mean (*a*) 139 ; Mean (*b*) 58.				Mean (*a*) 138 ; Mean (*b*) 138.				Mean (*a*) 121 ; Mean (*b*) 116.				
Hours G. M. T.												Mean of monthly hourly means.
12	13	14	15	16	17	18	19	20	21	22	23	
108	121	86	68	103	61	84	113	115	85	108	85	Wet Period May to October.
83	84	97	102	128	145	147	145	136	128	115	107	Dry Period November to April.

Note.—The Potential Gradient is reckoned as positive if the potential increases upwards. For indeterminate potential gradient the following notation is used: Z+, Indeterminate, positive value; Z—, Indeterminate, negative value; Z+ Indeterminate in magnitude and sign.

(*a*) Mean from all positive readings.

(*b*) Mean from all complete days using both positive and negative readings.

SEISMIC DISTURBANCES, 1932.

Colaba Observatory.

φ=18° 53′ 36″ N.; λ=72° 48′ 54″ E.; h=6 metres. Subsoil—Trap-rock.

Apparatus.—(*i*) Milne-Shaw Seismograph (N.-S. Component). Damping ratio : 20 : 1.
(*ii*) Milne-Shaw Seismograph (E.-W. Component). Damping ratio : 22 : 1.

Component	V	To
AN	250	12
AE	350	12

Date.	Phase	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Jan. 1st	A_N P	21 4 24	...	...	...	Very feeble shock.
	F	21 44 0	...	...	...	
	A_E P	21 4 24	...	...	...	Do.
	F	21 44 0	...	...	...	
„ 2nd	A_N P	23 53 16	...	...	...	Do.
„ 3rd	F	0 37 0	...	...	...	
„ 2nd	A_E P	23 53 16	...	...	...	Do.
„ 3rd	F	0 37 0	...	...	...	
„ 3rd	A_N P	7 55 53	...	...	...	
	S	8 0 26	...	...	...	
	L	8 3 17	...	...	...	
	M	8 4 1	8	4	...	
	F	8 41 0	...	...	...	
„ 3rd	A_E P	7 55 53	...	...	...	
	S	8 0 26	...	...	...	
	L	8 3 17	...	...	...	
	M	8 4 9	7	...	2	
	F	8 52 0	...	...	...	
„ 4th	A_N P	11 59 41	...	...	...	
	S	12 1 11	...	...	...	
	L	12 1 54	...	...	...	
	M	12 2 50	8	7	...	
	F	12 37 0	...	...	...	
„ 4th	A_E P	11 59 41	...	...	...	
	S	12 1 11	...	...	...	
	L	12 1 54	...	...	...	
	M	12 3 1	7	...	4	
	F	12 37 0	...	...	...	
„ 5th	A_N Pe	0 45 11	...	...	...	Very feeble shock.
	F	1 37 0	...	...	...	
„ 5th	A_E Pe	0 45 11	...	...	...	Do.
	F	1 27 0	...	...	...	
Jan. 5th	A_N Pe	2 14 20	...	...	...	Distant feeble shock.
	F	4 22 0	...	...	...	
„ 5th	A_E Pe	2 14 20	...	...	...	Do.
	F	4 42 0	...	...	...	
„ 5th	A_N P	5 30 24	...	...	...	Very feeble shock.
	F	Mixed in the next shock.				
„ 5th	A_E P	5 30 24	...	...	...	Do.
	F	Mixed in the next shock.				
„ 5th	A_N Pe	5 36 14	...	...	...	Do.
	S	5 37 41	...	...	...	
	F	6 12 0	...	...	...	
„ 5th	A_E Pe	5 36 14	...	...	...	Do.
	S	5 37 41	...	...	...	
	F	6 13 0	...	...	...	
„ 6th	A_N P	17 2 15	...	...	...	Feeble shock.
	F	18 11 0	...	...	...	
„ 6th	A_E P	17 2 15	...	...	...	Do.
	F	18 16 0	...	...	...	
„ 8th	A_N P	5 52 24	...	...	...	
	M	6 1 23	8	2	...	
	F	6 28 0	...	...	...	
„ 8th	A_E P	5 52 24	...	...	...	
	M	6 0 58	8	...	2	
	F	6 33 0	...	...	...	
„ 9th	A_N P	10 33 38	...	...	...	
	S	10 43 17	...	...	...	
	L	11 0 48	...	...	...	
	M	11 1 22	11	3	...	
	F	13 4 0	...	...	...	
Jan. 9th	A_E P	10 33 38	...	...	...	Distant feeble shock.
	S	10 43 17	...	...	...	
	L	11 0 48	...	...	...	
	M	11 2 50	14	...	7	
	F	13 50 0	...	...	...	
„ 10th	A_N P	1 8 9	...	...	...	Very feeble shock.
	F	1 43 0	...	...	...	
10th	A_E P	1 8 9	...	...	...	Do.
	F	1 43 0	...	...	...	
„ 13th	A_N P	6 59 44	...	...	...	Do.
	F	7 18 0	...	...	...	
„ 13th	A_E	Instrument out of adjustment.				
„ 13th	A_N P	8 15 29	...	...	...	Do.
	F	8 28 0	...	...	...	
„ 13th	A_E P	8 15 29	...	...	...	Do.
	F	8 28 0	...	...	...	
„ 13th	A_N Pe	16 28 6	...	...	...	Distant shock.
	M	17 5 11	21	6	...	
	F	17 49 0	...	...	...	
„ 13th	A_E Pe	16 28 6	...	...	...	Do.
	M	17 7 50	18	...	5	
	F	17 59 0	...	...	...	
„ 17th	A_N Pe	7 58 42	...	...	...	Distant feeble shock.
	F	10 38 0	...	...	...	
„ 17th	A_E P	7 58 42	...	...	...	Do.
	F	10 27 0	...	...	...	
„ 18th	A_N P	20 35 16	...	...	...	Do.
	F	21 43 0	...	...	...	
„ 18th	A_E P	20 35 16	...	...	...	Do.
	F	21 43 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A N.	Amplitude (μ) A E.	Remarks
1932.		H. M. S.				
	AN					
Jan. 19th	P	13 43 0	...	...	...	Very feeble shock.
	S	13 44 42	...	...	...	
	L	13 45 18	...	...	...	
	F	14 0 0	...	...	...	
	AE					
,, 19th	P	13 43 0	...	...	...	Do.
	S	13 44 42	...	...	...	
	L	13 45 18	...	...	...	
	F	14 0 0	...	...	...	
	AN					
,, 20th	P	2 49 51	...	...	...	Distant shock.
	S	3 4 9	...	...	...	
	L	3 46 44	...	...	...	
	F	4 28 0	...	...	...	
	AE					
,, 20th	P	2 49 51	...	...	...	Do.
	S	3 4 9	...	...	...	
	L	3 46 44	...	...	...	
	F	4 28 0	...	...	...	
,, 21st	AN	Record disturbed by Insect.				
	AE					
,, 21st	P	13 54 13	...	...	...	Feeble local shock.
	S	13 55 9	...	...	...	
	L	13 55 32	...	...	...	
	F	14 16 0	...	...	...	
	AN					
,, 22nd	P	0 54 42	...	...	...	Very feeble shock.
	S	0 59 37	...	...	...	
	F	1 35 0	...	...	...	
	AE					
,, 22nd	P	0 54 42	...	...	...	Do.
	S	0 59 37	...	...	...	
	F	1 35 0	...	...	...	
	AN					
,, 23rd	P	17 25 51	...	...	...	Feeble shock.
	S	17 27 12	...	...	...	
	L	17 27 43	...	...	...	
	F	17 45 0	...	...	...	
	AE					
,, 23rd	P	17 25 51	...	...	...	Do
	S	17 27 12	...	...	...	
	L	17 27 43	...	...	...	
	F	17 56 0	...	...	...	
	AN					
,, 24th	P	3 53 13	...	...	...	
	S	4 8 49	...	...	...	
	L	4 31 6	...	...	...	
	M	4 49 21	16	4	...	
	F	6 17 0	...	...	...	
	AE					
Jan. 24th	P	3 53 13	...	...	...	
	S	4 8 49	...	...	...	
	L	4 31 6	...	...	...	
	M	4 48 17	19	...	7	
	F	6 47 0	...	...	...	
	AN					
,, 24th	P	3 48 53	...	...	...	Feeble shock.
	S	3 51 4	...	...	...	
	L	3 51 54	...	...	...	
	F	9 15 0	...	...	...	
	AE					
,, 24th	P	3 48 53	...	...	...	Do.
	S	3 51 4	...	...	...	
	L	3 51 54	...	...	...	
	F	9 16 0	...	...	...	
	AN					
,, 25th	P	2 7 3	...	...	...	Very feeble shock.
	F	3 17 0	...	...	...	
	AE					
,, 25th	P	2 7 3	...	...	...	Do.
	F	3 48 0	...	...	...	
	AN					
,, 26th	P	5 4 2	...	...	...	
	S	5 5 41	...	...	...	
	L	5 6 13	...	...	...	
	F	5 29 0	...	...	...	
	AE					
,, 26th	P	5 4 2	...	...	...	
	S	5 5 41	...	...	...	
	L	5 6 13	...	...	...	
	F	5 29 0	...	...	...	
	AN					
,, 27th	e	19 55 0	...	...	...	Tremors.
	f	20 48 0	...	...	...	
	AE					
,, 27th	e	19 55 0	...	...	...	Do.
	f	20 48 0	...	...	...	
	AN					
,, 29th	P	13 53 46	...	...	...	
	S	14 4 3	...	...	...	
	L	14 25 22	...	...	...	
	M	14 43 26	19	7	...	
	F	17 45 0	...	...	...	
	AE					
,, 29th	P	13 53 46	...	...	...	
	S	14 4 3	...	...	...	
	L	14 25 22	...	...	...	
	M	14 33 43	22	...	14	
	F	18 48 0	...	...	...	
Jan. 29th	P	19 23 34	...	...	...	Very feeble shock.
	F	19 34 0	...	...	...	
,, 29th	P	19 23 34	...	...	...	Do.
	F	19 41 0	...	...	...	
,, 30th	P	3 17 29	...	...	...	Feeble shock.
	S	3 27 49	...	...	...	
	L	3 47 3	...	...	...	
	F	5 13 0	...	...	...	
,, 30th	P	3 17 29	...	...	...	Do.
	S	3 27 49	...	...	...	
	L	3 47 3	...	...	...	
	F	5 30 0	...	...	...	
,, 30th	P	25 21	...	...	...	Very feeble shock.
	F	8 19 0	...	...	...	
,, 30th	P	7 25 21	...	...	...	Do.
	F	Mixed with succeeding lines due to congestion.				
,, 30th	P	19 10 51	...	...	...	Feeble shock.
	F	20 20 0	...	...	...	
,, 30th	P	19 10 51	...	...	...	Do.
	F	20 20 0	...	...	...	
30th	e	21 12 0	...	...	...	Tremors.
	f	22 18 0	...	...	...	
30th	e	21 12 0	...	...	...	Do.
	f	22 18 0	...	...	...	
,, 30th	P	23 6 58	...	...	...	Feeble shock.
	F	23 54 0	...	...	...	
,, 30th	P	23 6 58	...	...	...	Do.
	F	23 54 0	...	...	...	
,, 31st	P	1 19 1	...	...	...	Do.
	F	1 57 0	...	...	...	
,, 31st	P	1 19 1	...	...	...	Do.
	F	1 57 0	...	...	...	
,, 31st	e	4 23 0	...	...	...	Tremors.
	f	Mixed with next shock.				
,, 31st	e	4 23 0	...	...	...	Do.
	f	Mixed with next shock.				

Seismic Disturbances, 1932—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_N					
Jan. 31st	P	4 47 35	...	...	...	Feeble shock.
	S	4 57 51	...	...	...	
	F	6 21 0	...	...	...	
	A_E					
„ 31st	P	4 47 35	...	...	...	Do.
	S	4 57 51	...	...	...	
	F	6 21 0	...	...	...	
	A_N					
„ 31st	Pe	12 7 14	...	...	...	Do.
	F	13 3 0	...	...	...	
	A_E					
„ 31st	Pe	12 7 14	...	...	...	Do.
	F	13 3 0	...	...	...	
	A_N					
„ 31st	P	16 14 5	...	...	...	Do.
	S	16 24 5	...	...	...	
	F	17 49 0	...	...	...	
	A_E					
„ 31st	P	16 14 5	...	...	...	Do.
	S	16 24 5	...	...	...	
	F	17 49 0	...	...	...	
	A_N					
„ 31st	P	20 4 5	...	...	...	Do.
	F	20 49 0	...	...	...	
	A_E					
„ 31st	P	20 4 5	...	...	...	Do.
	F	20 49 0	...	...	...	
	A_N					
„ 31st	P	21 41 52	...	...	...	Do.
	S	21 45 16	...	...	...	
	L	21 46 54	...	...	...	
	F	22 37 0	...	...	...	
	A_E					
„ 31st	P	21 41 52	...	...	...	Do.
	S	21 45 16	...	...	...	
	L	21 46 54	...	...	...	
	F	22 37 0	...	...	...	
	A_N					
Feb. 1st	P	7 44 41	...	...	...	
	S	7 49 46	...	...	...	
	L	7 54 7	...	...	...	
	F	8 55 0	...	...	...	
	A_E					
„ 1st	P	7 44 41	...	...	...	
	S	7 49 46	...	...	...	
	L	7 54 7	...	...	...	
	F	8 55 0	...	...	...	
	A_N					
„ 3rd	P	6 25 43	...	...	...	
	S	6 38 40	...	...	...	
	L	7 12 16	...	...	...	
	M	7 43 28	20	7	...	
	F	9 1 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_E					
Feb. 3rd	P	6 25 43	...	...	...	
	S	6 38 40	...	...	...	
	L	7 12 16	...	...	...	
	M	7 46 54	20	...	9	
	F	9 9 0	...	...	...	
	A_N					
„ 3rd	e	12 19 0	...	...	...	Tremors.
	f	13 4 0	...	...	...	
	A_E					
„ 3rd	e	12 19 0	...	...	...	Do.
	f	13 13 0	...	...	...	
	A_N					
„ 4th	P	6 27 57	...	...	...	Feeble shock.
	F	7 32 0	...	...	...	
	A_E					
„ 4th	P	6 27 57	...	...	...	Do.
	F	7 15 0	...	...	...	
	A_N					
„ 4th	P	21 21 7	...	...	...	
	S	21 24 10	...	...	...	
	L	21 25 58	...	...	...	
	M	21 31 5	8	2	...	
	F	22 4 0	...	...	...	
	A_E					
„ 4th	P	21 21 7	...	...	...	
	S	21 24 10	...	...	...	
	L	21 25 58	...	...	...	
	M	21 29 27	8	...	2	
	F	22 3 0	...	...	...	
	A_N					
„ 5th	P	13 48 35	...	...	...	
	S	13 52 55	...	...	...	
	L	13 56 16	...	...	...	
	M	13 56 25	7	9	...	
	F	14 45 0	...	...	...	
	A_E					
„ 5th	P	13 48 35	...	...	...	
	S	13 52 55	...	...	...	
	L	13 56 16	...	...	...	
	M	13 59 19	11	...	4	
	F	14 49 0	...	...	...	
	A_N					
„ 6th	P	5 43 37	...	...	...	Feeble shock.
	F	6 29 0	...	...	...	
	A_E					
„ 6th	P	5 43 37	...	...	...	Do.
	F	6 31 0	...	...	...	
	A_N					
„ 9th	P	2 23 47	...	...	...	Do.
	F	2 44 0	...	...	...	
	A_E					
„ 9th	P	2 23 47	...	...	...	Do.
	F	2 48 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_N					
Feb. 11th	P	11 47 35	...	...	...	Feeble shock.
	S	11 52 38	...	...	...	
	F	Mixed up with next shock.				
	A_E					
„ 11th	P	11 47 35	...	...	...	Do.
	S	11 52 38	...	...	...	
	F	Mixed up with next shock.				
	A_N					
„ 11th	Pe	12 1 43	...	...	...	
	S	12 6 43	...	...	...	
	L	12 10 13	...	...	...	
	F	13 5 0	...	...	...	
	A_E					
„ 11th	Pe	12 1 43	...	...	...	
	S	12 6 43	...	...	...	
	L	12 10 13	...	...	...	
	F	13 4 0	...	...	...	
	A_N					
„ 12th	P	1 2 15	...	...	...	
	S	1 5 37	...	...	...	
	L	1 7 58	...	...	...	
	M	1 10 14	14	2	...	
	F	3 2 0	...	...	...	
	A_E					
„ 12th	P	1 2 15	...	...	...	
	S	1 5 37	...	...	...	
	L	1 7 58	...	...	...	
	M	1 8 42	15	...	28	
	F	3 13 0	...	...	...	
	A_N					
„ 13th	e	19 33 0	...	...	...	Tremor.
	f	20 12 0	...	...	...	
	A_E					
„ 13th	e	19 33 0	...	...	...	Do.
	f	20 12 0	...	...	...	
	A_N					
„ 14th	P	2 43 57	...	...	...	Very feeble shock.
	F	3 7 0	...	...	...	
	A_E					
„ 14th	P	2 43 57	...	...	...	Do.
	F	3 7 0	...	...	...	
	A_N					
„ 14th	P	12 15 43	...	...	...	Feeble shock.
	F	13 15 0	...	...	...	
	A_E					
„ 14th	P	12 15 43	...	...	...	Do.
	F	13 15 0	...	...	...	
	A_N					
„ 14th	P	15 37 43	...	...	...	Do.
	F	15 45 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	Remarks.
1932.		H. M. S.				
Feb. 14th	E P	15 37 43	...	...	...	Feeble shock.
	F	15 45 0	...	...	...	
,, 14th	N P	20 34 36	...	...	...	Very feeble shock.
	F	21 7 0	...	...	...	
,, 14th	E P	20 34 36	...	...	...	Do.
	F	21 7 0	...	...	...	
,, 14th	N P	23 21 2	...	...	...	
	S	23 26 43	...	...	...	
	L	23 31 54	...	...	...	
	M	23 36 36	10	5	...	
,, 15th	F	1 20 0	...	...	...	
,, 14th	E P	23 21 2	...	...	...	
	S	23 26 43	...	...	...	
	L	23 31 54	...	...	...	
	M	23 35 45	11	...	9	
,, 15th	F	1 25 0	...	...	...	
,, 15th	N P	9 49 12	...	...	...	Very feeble shock.
	F	10 12 0	...	...	...	
,, 15th	E P	9 49 12	...	...	...	Do.
	F	10 12 0	...	...	...	
,, 16th	N P	14 6 39	...	...	...	
	S	14 18 56	...	...	...	
	L	14 47 11	...	...	...	
	F	16 4 0	...	...	...	
,, 16th	E P	14 6 39	...	...	...	
	S	14 18 56	...	...	...	
	L	14 47 11	...	...	...	
	M	14 58 24	21	...	7	
	F	16 27 0	...	...	...	
,, 17th	N e	23 34 0	...	...	...	Tremors.
,, 18th	f	0 7 0	...	...	...	
,, 17th	E e	23 34 0	...	...	...	Do.
,, 18th	f	0 7 0	...	...	...	
,, 18th	N P	1 31 36	...	...	...	Very feeble shock.
	F	2 0 0	...	...	...	
,, 18th	E P	1 31 36	...	...	...	Do.
	F	1 58 0	...	...	...	
1932.		H. M. S.				
Feb. 21st	N P	12 48 41	...	...	...	Feeble shock.
	F	Mixed up with the next shock.				
,, 21st	E P	12 48 41	...	...	...	Do.
	F	Mixed up with the next shock.				
,, 21st	N Pe	13 25 7	...	...	...	
	M	13 31 23	14	4	...	
	F	14 34 0	...	...	...	
,, 21st	E Pe	13 25 7	...	...	...	
	M	13 36 27	12	...	3	
	F	14 49 0	...	...	...	
,, 23rd	N P	0 32 1	...	...	...	
	S	0 40 55	...	...	...	
	L	0 55 41	...	...	...	
	M	1 5 31	18	3	...	
	F	2 58 0	...	...	...	
,, 23rd	E P	0 32 1	...	...	...	
	S	0 40 55	...	...	...	
	L	0 55 41	...	...	...	
	M	0 57 18	24	...	17	
	F	3 14 0	...	...	...	
,, 23rd	N P	20 21 42	...	...	...	Feeble shock.
	F	21 52 0	...		...	
,, 23rd	E P	20 21 42	...	...	...	Do.
	F	21 58 0	...	...	...	
,, 24th	N P	21 54 31	...	...	...	Very feeble shock.
	F	22 21 0	...	...	...	
,, 24th	E P	21 54 31	...	...	...	Do.
	F	22 21 0	...	...	...	
,, 26th	N e	7 35 0	...	...	...	Tremors.
	f	8 21 0	...		...	
,, 26th	E e	7 36 0	...	...	...	Do.
	f	8 20 0	...	...	...	
,, 26th	N P	11 39 16	...	...	...	Very feeble shock.
	F	12 19 0	...	...	...	
,, 26th	E P	11 39 16	...	...	...	Do.
	F	12 19 0	...	...	...	
1932.		H. M. S.				
Feb. 27th	N e	21 45 0	...	...	...	Tremors.
	f	21 59 0	...	...	...	
,, 24th	E e	21 45 0	...	...	...	Do.
	f	21 59 0	...	...	...	
,, 29th	N e	22 59 0	...	...	...	Do.
	f	23 17 0	...	...	...	
,, 29th	E e	22 59 0	...	...	...	Do.
	f	23 17 0	...	...	...	
Mar. 4th	N P	23 24 42	...	...	...	
	S	23 28 5	...	...	...	
	L	23 29 36	...	...	...	
	M	23 30 59	11	24	...	
,, 5th	F	0 16 0	...	...	...	
,, 4th	E P	23 24 42	...	...	...	
	S	23 28 5	...	...	...	
	L	23 29 36	...	...	...	
	M	23 30 12	9	...	16	
,, 5th	F	0 18 0	...	...	...	
,, 5th	N e	2 24 0	...	...	...	Tremors.
	f	3 13 0	...	...	...	
,, 5th	E e	2 24 0	...	...	...	Do.
	f	3 13 0	...	...	...	
,, 6th	N P	0 22 51	...	...		
	S	0 26 34	...	...	...	
	L	0 28 26	...			
	M	0 28 38	6	16		
	F	1 9 0	...			
,, 6th	E P	0 22 51	...	...	...	
	S	0 26 34	...	...	...	
	L	0 28 26	...	...	...	
	M	0 30 13	11	...	12	
	F	1 9 0	...	...	...	
,, 6th	N P	21 49 5	...	...	...	
	S	21 53 38	...	...	...	
	L	21 56 45	...	...	...	
	M	22 0 15	8	8	...	
	F	22 27 0	...	...	...	
,, 6th	E P	21 49 5	...	...	...	
	S	21 53 38	...	...	...	
	L	21 56 45	...	...	...	
	M	21 59 39	9	...	3	
	F	22 35 0	...	...	...	

Seismic Disturbances 1932—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). A_N	Amplitude (μ). A_E	Remarks.
1932.		H. M. S.				
Mar. 7th	A_N e	2 53 0	...	...	...	Tremors.
	f	3 14 0	...	...	...	
,, 7th	A_E e	2 53 0	...	...	...	Do.
	f	3 14 0	...	...	...	
,, 8th	A_N P	3 23 42	...	...	...	
	S	3 34 1	...	...	...	
	L	3 54 30	...	...	...	
	F	4 7 0	...	...	...	
,, 8th	A_E P	3 23 42	...	...	...	
	S	3 34 1	...	...	...	
	L	3 54 30	...	...	...	
	F	4 31 0	...	...	...	
,, 8th	A_N P	4 42 17	...	...	...	
	S	4 52 38	...	...	...	
	L	5 13 29	...	...	...	
	M	Movements small.				
	F	6 5 0	...	...	...	
,, 8th	A_E P	4 42 17	...	...	...	
	S	4 52 38	...	...	...	
	L	5 13 29	...	...	...	
	M	5 22 30	23	...	7	
	F	6 17 0	...	...	...	
,, 8th	A_N P	18 19 0	...	...	...	Distant feeble shock.
	F	19 58 0	...	...	...	
,, 8th	A_E P	18 19 0	...	...	...	Do.
	F	19 58 0	...	...	...	
,, 9th	A_N P	1 11 12	...	...	...	Very feeble shock.
	F	1 37 0	...	...	...	
,, 9th	A_E P	1 11 12	...	...	...	Do.
	F	1 37 0	...	...	...	
,, 9th	A_N P	9 28 19	...	...	...	Do.
	F	9 43 0	...	...	...	
,, 9th	A_E P	9 28 19	...	...	...	Do.
	F	9 43 0	...	...	...	
,, 9th	A_N P	10 25 5	...	...	...	Do.
	F	11 1 0	...	...	...	
,, 9th	A_E P	10 25 5	...	...	...	Do.
	F	11 1 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). A_N	Amplitude (μ). A_E	Remarks.
1932.		H. M. S.				
Mar. 9th	A_N e	18 11 0	...	...	...	Tremors.
	f	18 41 0	...	...	...	
,, 9th	A_E e	18 11 0	...	...	...	Do.
	f	18 41 0	...	...	...	
,, 10th	A_N e	1 10 0	...	...	...	Do.
	f	1 44 0	...	...	...	
,, 10th	A_E e	1 10 0	...	...	...	Do.
	f	1 44 0	...	...	...	
,, 10th	A_N Pe	5 39 12	...	...	...	Distant feeble shock.
	F	7 32 0	...	...	...	
,, 10th	A_E Pe	5 39 12	...	...	...	Do.
	F	7 42 0	...	...	...	
,, 14th	A_N P	23 2 20	...	...	...	
	S	23 5 51	...	...	...	
	L	23 7 46	...	...	...	
	M	Movements small.				
,, 15th	F	0 56 0	...	...	...	
,, 14th	A_E P	23 2 20	...	...	...	
	S	23 5 51	...	...	...	
	L	23 7 46	...	...	...	
,, 15th	M	0 24 46	17	...	2	
	F	1 14 0	...	...	...	
,, 15th	A_N P	4 43 22	...	...	...	
	S	4 52 31	...	...	...	
	L	5 6 39	...	...	...	
	F	6 20 0	...	...	...	
,, 15th	A_E P	4 43 22	...	...	...	
	S	4 52 31	...	...	...	
	L	5 6 39	...	...	...	
	F	6 20 0	...	...	...	
,, 15th	A_N P	6 45 21	...	...	...	Feeble shock.
	F	7 6 0	...	...	...	
,, 15th	A_E P	6 45 21	...	...	...	Do.
	F	7 6 0	...	...	...	
,, 15th	A_N e	7 56 0	...	...	...	Tremors.
	f	8 26 0	...	...	...	
,, 15th	A_E e	7 56 0	...	...	...	Do.
	f	8 26 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.).	Amplitude (μ). A_N	Amplitude (μ). A_E	Remarks.
1932.		H. M. S.				
Mar. 15th	A_N Pe	10 24 6	...	...	...	Very feeble shock.
	F	10 57 0	...	...	...	
,, 15th	A_E Pe	10 24 6	...	...	...	Do.
	F	10 57 0	...	...	...	
,, 16th	A_N e	20 55 0	...	...	...	Tremors.
	f	22 9 0	...	...	...	
,, 16th	A_E e	20 55 0	...	...	...	Do.
	f	22 9 0	...	...	...	
,, 18th	A_N P	5 23 35	...	...	...	
	S	5 29 22	...	...	...	
	L	5 34 18	...	...	...	
	M	5 39 22	9	3	...	
	F	7 7 0	...	...	...	
,, 18th	A_E P	5 23 35	...	...	...	
	S	5 29 22	...	...	...	
	L	5 34 18	...	...	...	
	M	5 40 45	12	...	5	
	F	7 13 0	...	...	...	
,, 19th	A_N P	11 11 0	...	...	...	
	S	11 20 9	...	...	...	
	L	11 36 24	...	...	...	
	M	11 39 23	...	17	4	
	F	12 50 0	...	...	...	
,, 19th	A_E P	11 11 0	...	...	...	
	S	11 20 9	...	...	...	
	L	11 36 24	...	...	...	
	M	11 42 44	20	...	5	
	F	13 9 0	...	...	...	
,, 19th	A_N e	13 18 0	...	...	...	Tremors.
	f	14 0 0	...	...	...	
,, 19th	A_E e	13 18 0	...	...	...	Do.
	f	14 0 0	...	10	...	
,, 19th	A_N P	23 22 17	...	...	...	Distant feeble shock.
,, 20th	F	0 47 0	...	...	...	
,, 19th	A_E P	23 22 17	...	...	...	Do.
,, 20th	F	0 47 0	...	...	...	
,, 21st	A_N F	11 32 44	...	...	...	Very feeble shock.
	F	11 55 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	Remarks.
1932.		H. M. S.				
Mar. 21st	A_E P	11 32 44	...	...	...	Very feeble shock.
	F	11 55 0	...	...	...	
	A_N e	12 29 0	...	...	...	Tremors.
	f	12 57 0	...	...	...	
	A_E e	12 29 0	...	...	...	Do.
	f	12 57 0	...	...	...	
	A_N e	13 27 0	...	...	...	Do.
	f	14 11 0	...	...	...	
	A_E e	13 27 0	...	...	...	Do.
	f	14 11 0	...	...	...	
„ 24th	A_N P	16 12 41	...	...	...	
	S	16 16 7	...	...	...	
	L	16 17 50	...	...	...	
	M	16 18 30	6	19	...	
	F	16 52 0	...	...	...	
„ 24th	A_E P	16 12 41	...	...	...	
	S	16 16 7	...	...	...	
	L	16 17 50	...	...	...	
	M	16 18 30	6	...	10	
	F	16 57 0	...	...	...	
„ 25th	A_N P	4 33 45	...	...	...	
	S	4 36 48	...	...	...	
	L	4 38 13	...	...	...	
	M	4 39 26	5	4	...	
	F	5 13 0	...	...	...	
„ 25th	A_E P	4 33 45	...	...	...	
	S	4 36 48	..	...	...	
	L	4 38 13	...	...	...	
	M	4 40 21	5	...	2	
	F	5 12 0	...	...	...	
„ 26th	A_N P	0 11 37	...	...	...	
	S	0 22 17	...	...	...	
	L	0 44 10	...	...	...	
	M	0 49 30	18	27	...	
	F	3 29 0	...	...	...	
„ 26th	A_E P	0 11 37	...	...	...	
	S	0 22 17	...	...	...	
	L	0 44 10	...	...	...	
	M	0 49 30	18	...	38	
	F	3 41 0	...	...	...	
1932.		H. M. S.				
Mar. 26th	A_N Pe	7 13 2	...	...	...	Feeble shock.
	M	Movements small.				
	P	8 34 0	...	...	...	
	A_E Pe	7 13 2	...	...	...	Do.
	M	7 22 8	12	...	4	
	F	8 25 0	...	...	...	
„ 26th	A_N P	10 2 24	...	...	...	
	S	10 10 14	...	...	...	
	L	10 22 16	...	...	...	
	M	10 33 0	17	10	...	
	F	12 41 0	...	...	...	
„ 26th	A_E P	10 2 24	...	...	...	
	S	10 10 14	...	...	...	
	L	10 22 16	...	...	...	
	M	10 33 10	17	...	15	
	F	13 8 0	...	...	...	
„ 27th	A_N P	8 48 54	...	...	...	
	S	8 52 44	...	...	...	
	L	8 54 50	...	...	...	
	M	8 56 25	10	14	...	
	F	9 55 0	...	...	...	
„ 27th	A_E P	8 48 54	...	...	...	
	S	8 52 44	...	...	...	
	L	8 54 50	...	...	...	
	M	8 57 9	8	...	6	
	F	9 55 0	...	...	...	
„ 27th	A_N Pe	17 8 21	...	...	...	Very feeble shock.
	F	18 3 0	...	...	...	
„ 27th	A_E Pe	17 8 21	...	...	...	Do.
	F	17 53 0	...	...	...	
„ 28th	A_N P	0 42 48	...	...	...	
	S	0 48 43	...	...	...	
	L	0 54 18	...	...	...	
	M	1 1 3	10	4	...	
	F	3 8 0	...	...	...	
„ 28th	A_E P	0 42 48	...	...	...	
	S	0 48 43	...	...	...	
	L	0 54 18	...	...	...	
	M	1 1 2	13	...	9	
	F	3 38 0	...	...	...	
1932.		H. M. S.				
Mar. 28th	A_N P	8 54 43	...	...	...	Very feeble shock.
	F	9 43 0	...	...	...	
„ 28th	A_E P	8 54 43	...	...	...	Do.
	F	9 43 0	...	...	...	
„ 29th	A_N P	9 18 50	...	...	...	Do.
	F	10 32 0	...	...	...	
„ 29th	A_E P	9 18 50	...	...	...	Do.
	F	10 32 0	...	...	...	
„ 30th	A_N Pe	15 14 44	...	...	...	Do.
	F	16 18 0	...	...	...	
„ 30th	A_E Pe	15 14 44	...	...	...	Do.
	F	15 48 0	...	...	...	
, 31st	A_N e	22 8 0	...	...	...	Tremors.
	f	22 34 0	...	...	...	
„ 31st	A_E e	22 8 0	...	...	...	Do.
	f	22 33 0	...	...	...	
April 2nd	A_N Pe	9 5 40	...	...	...	Very feeble shock.
	F	9 40 0	...	...	...	
„ 2nd	A_E Pe	9 5 40	...	...	...	Do.
	F	9 40 0	...	...	...	
„ 3rd	A_N P	20 57 34	...	...	...	
	S	21 8 25	...	...	...	
	L	21 30 55	...	...	...	
	M	21 51 54	19	3	...	
	F	22 33 0	...	...	...	
„ 3rd	A_E P	20 57 34	...	...	...	
	S	21 8 25	...	...	...	
	L	21 30 55	...	...	...	
	M	21 46 12	20	...	4	
	F	23 1 0	...	...	...	
„ 4th	A_N P	19 26 4	...	...	...	
	S	19 36 32	...	...	...	
	L	19 58 53	...	...	...	
	F	20 47 0	...	...	...	
„ 4th	A_E P	19 26 4	...	...	...	
	S	19 36 32	...	...	...	
	L	19 58 53	...	...	...	
	F	20 50 0	...	...	...	

Seismic Disturbances, 1931—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A N	Amplitude (μ). A E	Remarks.
1932.		H. M. S.				
April 6th	A N P	9 18 56	...	...	...	Feeble shock.
	S	9 25 4	...	...	...	
	L	9 31 8	...	...	...	
	F	10 16 0	...	...	...	
	A E P	9 18 56	...	...	...	Do.
	S	9 25 4	...	...	...	
	L	9 31 8	...	...	...	
	F	10 17 0	...	...	...	
,, 8th	A N Pe	12 14 27	...	...	...	Distant feeble shock.
	F	13 26 0	...	...		
	A E Pe	12 14 27	...	...	...	Do.
	F	13 53 0	...	...	...	
,, 10th	A N e	16 59 0	...	...	...	Tremors.
	f	17 12 0	...	...	...	
	A E e	16 59 0	...	...	...	Do.
	f	17 12 0	...	...	...	
,, 13th	A N P	0 4 49	...	...	...	Distant feeble shock.
	S	0 14 58	...	...	...	
	L	0 34 54	...	...	...	
	F	1 42 0	...	...	...	
	A E P	0 4 49	...	...	...	Do.
	S	0 14 58	...	...	...	
	L	0 34 54	...	...	...	
	F	2 2 0	...	...	...	
,, 13th	A N Pe	4 4 44	...	...	...	Very feeble shock.
	F	5 0 0	...	...	...	
,, 13th	A E Pe	4 4 44	...	...	...	Do.
	F	4 57 0	...	...	...	
,, 18th	A N P	11 22 15	...	...	...	
	S	11 25 56	...	...	...	
	L	11 28 17	...	...	...	
	M	11 33 50	11	5	...	
	F	12 26 0	...	...	...	
,, 18th	A E P	11 22 15	...	...	...	
	S	11 25 56	...	...	...	
	L	11 28 17	...	...	...	
	M	11 35 9	13	...	9	
	F	12 48 0	...	...	...	
1932.		H. M. S.				
April 22nd	A N P	5 5 29	...	...	...	
	S	5 11 21	...	...	...	
	L	5 18 7	...	...	...	
	F	6 25 0	...	...	...	
,, 22nd	A E P	5 5 29	...	...	...	Do.
	S	5 11 21	...	...	...	
	L	5 18 7	...	...	...	
	F	7 6 0	...	...	...	
,, 26th	A N P	8 14 27	...	...	...	Distant feeble shock.
	F	10 9 0	...	...	...	
,, 26th	A E P	8 14 27	...	...	...	Do.
	F	10 11 0	...	...	...	
,, 29th	A N Pe	17 39 57	...	...	...	Very feeble shock.
	F	18 26 0	...	...	...	
,, 29th	Pe	17 39 57	...	...	...	Do.
	F	18 26 0	...	...	...	
,, 29th	A N P	18 31 16	...	...	...	Distant feeble shock.
	F	19 54 0	...	...	...	
,, 29th	A E P	18 31 16	...	...	...	Do.
	F	19 54 0	...	...	...	
,, 30th	A N P	1 19 6	...	...	...	Feeble shock.
	F	Lost while changing paper.				
,, 30th	A E P	1 19 6	...	...	...	Do.
	F	Lost while changing paper.				
,, 30th	A N P	10 56 38	...	...	...	
	S	10 59 47	...	...	...	
	L	11 1 16	...	...	...	
	F	11 24 0	...	...	...	
,, 30th	A E P	10 56 38	...	...	...	
	S	10 59 47	...	...	...	
	L	11 1 16	...	...	...	
	F	11 38 0	...	...	...	
May 1st	A N e	5 7 0	...	...	...	Tremors.
	f	5 41 0	...	...	...	
,, 1st	A E e	5 7 0	...	...	...	Do.
	f	5 41 0	...	...	...	
May 2nd	A N P	23 38 40	...	...	...	Very feeble shock.
,, 3rd	F	0 37 0	...	...	...	
,, 2nd	A E P	23 38 40	...	...	...	Do.
,, 3rd	F	0 37 0	...	...	...	
,, 4th	A N e	1 31 0	...	...	...	Tremors.
	f	1 48 0	...	...	...	
,, 4th	A E e	1 31 0	...	...	...	Do.
	f	1 53 0	...	...	...	
,, 4th	A N Pe	11 30 2	...	...	...	Very feeble shock.
	F	11 49 0	...	...	...	
,, 4th	A E Pe	11 30 2	...	...	...	Do.
	F	11 49 0	...	...	...	
,, 4th	A N e	22 19 0	...	...	...	Tremors.
	f	22 30 0	...	...	...	
,, 4th	A E e	22 19 0	...	...	...	Do.
	f	22 30 0	...	...	...	
,, 5th	A N P	4 20 13	...	...	...	Feeble shock.
	F	5 12 0	...	...	...	
,, 5th	A E P	4 20 13	...	...	...	Do.
	F	5 12 0	...	...	...	
,, 5th	A N e	9 8 0	...	...	...	Tremors.
	f	9 20 0	...	...	...	
,, 5th	A E e	9 8 0	...	...	...	Do.
	f	9 20 0	...	...	...	
,, 10th	A N Pe	14 27 20	...	...	...	Very feeble shock.
	F	15 7 0	...	...	...	
,, 10th	A E Pe	14 27 20	...	...	...	Do.
	F	15 7 0	...	...	...	
,, 11th	A N P	7 3 57	...	...	...	Feeble shock.
	F	8 8 0	...	...	...	
,, 11th	A E P	7 3 57	...	...	...	Do.
	F	8 8 0	...	...	...	
,, 12th	A N Pe	6 17 19	...	...	...	Do
	F	7 12 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	Remarks.
1932.		H. M. S.				
	A_R					
May 12th	Pe	6 17 19	...	...	...	Feeble shock.
	F	7 12 0	...	...	...	
	A_N					
,, 14th	P	13 20 37	...	...	...	
	S	13 27 59	...	...	...	
	L	13 36 7	...	...	...	
	M	13 36 32	26	1009	...	
	F	13 7 0	...	...	...	
	A_E					
,, 14th	P	13 20 37	...	...	...	
	S	13 27 59	...	...	...	
	L	13 36 7	...	...	...	
	M	13 36 55	26	...	1145	
	F	13 53 0	...	...	...	
	A_N					
,, 17th	Pe	13 5 12	...	...	...	Very feeble shock.
	F	13 50 0	...	...	...	
	A_E					
,, 17th	Pe	13 5 12	...	...	...	Do.
	F	13 50 0	...	...	...	
	A_N					
,, 17th	P	13 54 32	...	...	...	
	S	13 55 54	...	...	...	
	L	13 56 29	...	...	...	
	F	14 9 0	...	...	...	
	A_E					
,, 17th	P	13 54 32	...	...	...	
	S	13 55 54	...	...	...	
	L	13 56 29	...	...	...	
	F	14 10 0	...	...	...	
	A_N					
,, 18th	Pe	19 5 43	...	...	...	
	M	19 33 52	15	7	...	
	F	20 30 0	...	...	...	
	A_E					
,, 18th	Pe	19 5 43	...	...	...	
	M	19 30 39	18	...	7	
	F	20 40 0	...	...	...	
	A_N					
,, 20th	Pe	19 20 40	...	...	...	
	M	19 34 56	9	3	...	
	F	19 55 0	...	...	...	
	A_E					
,, 20th	Pe	19 20 40	...	...	...	
	M	19 31 7	12	...	3	
	F	19 54 0	...	...	...	
	A_N					
,, 21st	P	10 29 33	...	...	...	
	S	10 43 8	...	...	...	
	L	11 19 7	...	...	...	
	M	11 31 34	24	26	...	
	F	12 56 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	Remarks.
1932.		H. M. S.				
	A_E					
May 21st	P	10 29 33	...	...	...	
	S	10 43 8	...	...	...	
	L	11 19 7	...	...	...	
	M	11 30 34	24	...	29	
	F	12 58 0	...	...	...	
	A_N					
,, 21st	Pe	21 49 8	...	...	...	Very feeble shock.
	F	22 9 0	...	...	...	
	A_E					
,, 21st	Pe	21 49 8	...	...	...	Do.
	F	22 7 0	...	...	...	
	A_N					
,, 22nd	Pe	11 54 45	...	...	...	Very feeble shock.
	F	12 16 0	...	...	...	
	A_E					
,, 22nd	Pe	11 54 45	...	...	...	Do.
	F	12 17 0	...	...	...	
	A_N					
,, 22nd	Pe	12 22 45	...	...	...	Distant feeble shock.
	F	13 26 0	...	...	...	
	A_E					
,, 22nd	Pe	12 22 45	...	...	...	Do.
	F	13 30 0	...	...	...	
	A_N					
,, 26th	P	5 17 33	...	...	...	
	S	5 21 39	...	...	...	
	L	5 24 29	...	...	...	
	M	5 25 18	7	6	...	
	F	6 4 0	...	...	...	
	A_E					
,, 26th	P	5 17 33	...	...	...	
	S	5 21 39	...	...	...	
	L	5 24 29	...	...	...	
	M	5 27 9	9	...	4	
	F	6 3 0	...	...	...	
	A_N					
,, 26th	P	16 23 36	...	...	...	
	S	16 30 22	...	...	...	
	L	16 39 21	...	...	...	
	M	16 41 9	15	40	...	
	F	20 0 0	...	...	...	
	A_E					
,, 26th	P	16 23 36	...	...	...	
	S	16 30 22	...	...	...	
	L	16 30 21	...	...	...	
	M	16 40 34	17	...	70	
	F	19 58 0	...	...	...	
	A_N					
,, 26th	Pe	22 41 44	...	...	...	Very feeble shock.
	F	23 8 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ). A_N	Amplitude (μ). A_E	Remarks.
1932.		H. M. S.				
	A_E					
May 26th	Pe	22 41 44	...	...	...	Very feeble shock.
	F	23 9 0	...	...	...	
	A_N					
,, 27th	Pe	12 52 35	...	...	...	Do.
	F	13 8 0	...	...	...	
	A_E					
,, 27th	Pe	12 52 35	...	...	...	Do.
	F	13 8 0	...	...	...	
	A_N					
,, 28th	P	2 30 47	..	...	...	
	S	2 38 22	...	...	...	
	L	2 49 11	...	...	...	
	M	2 54 29	17	13	...	
	F	4 4 0	...	...	...	
	A_E					
28th	P	2 30 47	...	...	...	
	S	2 38 22	...	...	...	
	L	2 49 11	...	...	...	
	M	2 57 0	17	...	7	
	F	4 4 0	...	...	...	
	A_N					
,, 31st	Pe	15 21 9	...	...	...	Feeble shock.
	M	15 26 8	9	2	...	
	F	15 42 0	...	...	...	
	A_E					
,, 31st	Pe	15 21 9	...	...	...	Do.
	M	15 25 58	10	...	2	
	F	15 49 0	...	...	...	
	A_N					
June 2nd	Pe	18 58 32	...	...	...	Very feeble shock.
	F	19 22 0	...	...	...	
	A_E					
,, 2nd	Pe	18 58 32	...	...	...	Do.
	F	19 22 0	...	...	...	
	A_N					
,, 3rd	e	0 38 0	...	...	...	Tremors.
	f	1 5 0	...	...	...	
	A_E					
,, 3rd	e	0 38 0	...	...	...	Do.
	f	1 12 0	...	...	...	
	A_N					
,, 3rd	P	10 56 34	...	...	...	
	S	11 9 6	...	...	...	
	L	11 36 42	...	...	...	
	M	12 6 9	23	991	...	
	F	15 48 0	...	...	...	

Seismic Disturbances, 1932—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_E					
June 3rd	P	10 56 34	...	...	...	
	S	11 9 6	...	...	...	
	L	11 36 42	...	...	...	
	M	12 7 27	23	...	599	
	F	15 50 0	...	...	...	
	A_N					
,, 3rd	P	17 42 6	...	...	...	Feeble shock.
	F	18 16 0	...	...	...	
	A_E					
,, 3rd	P	17 42 6	...	...	...	Do.
	F	18 16 0	...	...	...	
	A_N					
,, 5th	e	10 20 0	...	...	...	Tremors.
	f	10 42 0	...	...	...	
	A_E					
,, 5th	e	10 20 0	...	...	...	Do.
	f	10 42 0	...	...	...	
	A_N					
,, 5th	e	13 18 0	...	...	...	Do.
	f	13 33 0	...	...	...	
	A_E					
,, 5th	e	13 18 0	...	...	...	Do.
	f	13 33 0	...	...	...	
	A_N					
,, 6th	P	6 41 16	...	...	...	Very feeble shock.
	F	6 57 0	...	...	...	
	A_E					
,, 6th	P	6 41 16	...	...	...	Do.
	F	6 57 0	...	...	...	
	A_N					
,, 6th	P	9 11 50	...	...	...	Distant feeble shock.
	F	10 55 0	...	...	...	
	A_E					
,, 6th	P	9 12 2	...	...	...	Do.
	F	10 55 0	...	...	...	
	A_N					
,, 8th	P	15 3 14	...	...	...	Feeble shock.
	S	15 11 7	...	...	...	
	L	15 27 2	...	...	...	
	F	15 49 0	...	...	...	
	A_E					
,, 8th	P	15 3 14	...	...	...	Do.
	S	15 11 7	...	...	...	
	L	15 27 2	...	...	...	
	F	15 44 0	...	...	...	
	A_N					
,, 10th	P	20 31 14	...	...	...	
	S	20 38 23	...	...	...	
	L	20 48 12	...	...	...	
	F	21 21 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_E					
June 10th	P	20 31 14	...	...	...	
	S	20 38 23	...	...	...	
	L	20 48 12	...	...	...	
	F	21 19 0	...	...	...	
	A_N					
,, 11th	P	8 37 21	...	...	...	
	S	8 40 54	...	...	...	
	L	8 43 11	...	...	...	
	M	8 47 14	12	8	...	
	F	9 35 0	...	...	...	
	A_E					
,, 11th	P	8 37 21	...	...	...	
	S	8 40 54	...	...	...	
	L	8 43 11	...	...	...	
	M	8 48 21	11	...	2	
	F	9 27 0	...	...	...	
	A_N					
,, 11th	Pe	17 10 52	...	...	...	Very feeble shock.
	F	17 57 0	...	...	...	
	A_E					
,, 11th	Pe	17 10 52	...	...	...	Do.
	F	17 59 0	...	...	...	
	A_N					
,, 13th	P	21 5 41	...	...	...	
	S	21 12 26	...	...	...	
	L	21 21 11	...	...	...	
	M	21 25 15	13	5	...	
	F	22 11 0	...	...	...	
	A_E					
,, 13th	P	21 5 41	...	...	...	
	S	21 12 26	...	...	...	
	L	21 21 11	...	...	...	
	M	21 28 7	14	6	...	
	F	22 13 0	...	...	...	
	A_E					
,, 14th	P	6 7 54	...	...	...	Feeble shock.
	F	6 58 0	...	...	...	
	A_E					
,, 14th	P	6 7 54	...	...	...	Do.
	F	6 58 0	...	...	...	
	A_N					
,, 14th	Pe	11 26 40	...	...	...	Do.
	F	12 24 0	...	...	...	
	A_E					
,, 14th	Pe	11 27 6	...	...	...	Do.
	F	12 25 0	...	...	...	
	A_N					
,, 16th	P	1 24 42	...	...	...	
	S	1 29 27	...	...	...	
		1 32 56	...	...	...	
	M	1 33 31	8	7	...	
	F	3 23 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_E					
June 16th	P	1 24 42	...	...	...	
	S	1 29 27	...	...	...	
	L	1 32 56	...	...	...	
	M	1 41 25	10	...	5	
	F	3 7 0	...	...	...	
	A_N					
,, 18th	P	10 32 3	...	...	...	
	S	10 45 20	...	...	...	
	L	11 21 1	...	...	...	
	M	11 43 42	21	461	...	
	F	13 58 0	...	...	...	
	A_E					
,, 18th	P	10 32 3	...	...	...	
	S	10 45 20	...	...	...	
	L	11 21 1	...	...	...	
	M	11 44 44	19	...	171	
	F	14 7 0	...	...	...	
	A_N					
,, 18th	P	17 40 54	...	...	...	Feeble shock.
	F	18 32 0	...	...	...	
	A_E					
,, 18th	P	17 40 54	...	...	...	Do.
	F	18 33 0	...	...	...	
	A_N					
,, 20th	e	6 1 0	...	...	...	Tremors.
	f	6 19 0	...	...	...	
	A_E					
,, 20th	e	6 1 0	...	...	...	Do.
	f	6 16 0	...	...	...	
	A_N					
,, 21st	Pe	23 11 58	...	...	...	Very feeble shock.
	F	23 41 0	...	...	...	
	A_E					
,, 20th	Pe	23 11 58	...	...	...	Do.
	F	23 39 0	...	...	...	
	A_N					
,, 22nd	Pe	0 46 17	...	...	...	Feeble shock.
	F	1 32 0	...	...	...	
	A_E					
,, 22nd	Pe	0 46 17	...	...	...	Do.
	F	1 32 0	...	...	...	
	A_N					
,, 22nd	P	13 19 18	...	...	...	
	S	13 32 29	...	...	...	
	L	14 7 1	...	...	...	
	M	14 24 39	22	28	...	
	F	16 2 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
June 22nd	P	13 19 18	...	...	...	
	S	13 32 29	...	...	...	
	L	14 7 1	...	...	...	
	M	14 24 11	20	...	21	
	F	16 5 0	...	...	...	
,, 26th	P	19 30 19	...	...	...	
	S	19 39 25	...	...	...	
	L	19 55 15	...	...	...	
	M	20 2 51	16	4	...	
	F	20 31 0	...	...	...	
,, 26th	P	19 30 19	...	...	...	
	S	19 39 25	...	...	...	
	L	19 55 15	...	...	...	
	M	20 6 17	15	...	3	
	F	20 34 0	...	...	...	
,, 29th	Pe	18 31 8	...	...	...	Feeble shock.
	F	19 36 0	...	...	...	
,, 29th	Pe	18 31 8	...	...	...	Do.
	F	19 28 0	...	...	...	
July 2nd	Pe	2 29 44	...	...	...	Very feeble shock.
	P	3 11 0	...	...	...	
,, 2nd	Pe	2 29 44	...	...	...	Do.
	F	3 9 0	...	...	...	
,, 5th	P	11 1 13	...	...	...	
	S	11 5 43	...	...	...	
	L	11 8 55	...	...	...	
	F	11 52 0	...	...	...	
,, 5th	P	11 1 13	...	...	...	
	S	11 5 43	...	...	...	
	L	11 8 55	...	...	...	
	F	11 47 0	...	...	...	
,, 7th	Pe	16 37 55	...	...	...	Distant shock.
	M	17 39 48	21	14	...	
	F	18 52 0	...	...	...	
,, 7th	Pe	16 37 55	...	...	...	Do.
	M	17 37 30	19	...	10	
	F	18 32 0	...	...	...	
,, 9th	Pe	13 19 17	...	...	...	Feeble shock.
		14 7 0	...	...	...	
1932.		H. M. S.				
July 9th	Pe	13 19 17	...	...	...	Feeble shock.
	F	14 7 0	...	...	...	
,, 12th	Pe	20 3 55	...	...	...	
	M	20 51 7	21	22	...	
	F	21 51 0	...	...	...	
,, 12th	Pe	20 3 55	...	...	...	
	M	20 43 41	25	...	17	
	F	21 44 0	...	...	...	
,, 15th	e	21 26 0	...	...	...	Tremors.
	f	21 47 0	...	...	...	
,, 15th	e	21 26 0	...	...	...	Do.
	f	21 47 0	...	...	...	
,, 16th	P	21 4 48	...	...	...	
	S	21 9 8	...	...	...	
	L	21 13 9	...	...	...	
	M	21 19 25	14	5	...	
	F	22 28 0	...	...	...	
,, 16th	P	21 4 48	...	...	...	
	S	21 9 8	...	...	...	
	L	21 13 9	...	...	...	
	M	21 18 11	15	...	8	
	F	22 19 0	...	...	...	
,, 20th	Pe	20 27 55	...	...	...	Feeble shock.
	F	21 31 0	...	...	...	
,, 20th	Pe	20 27 55	...	...	...	Do.
	F	21 31 0	...	...	...	
,, 21st	P	12 50 49	...	...	...	
	S	12 59 38	...	...	...	
	L	13 14 12	...	...	...	
	F	13 45 0	...	...	...	
,, 21st	P	12 50 49	...	...	...	
	S	12 59 38	...	...	...	
	L	13 14 12	...	...	...	
	F	13 55 0	...	...	...	
,, 21st	e	17 20 0	...	...	...	Tremors.
	f	18 30 0	...	...	...	
,, 21st	e	17 20 0	...	...	...	Do.
	f	18 30 0	...	...	...	
1932.		H. M. S.				
July 25th	e	8 38 0	...	...	...	Tremors.
	f	8 55 0	...	...	...	
,, 25th	e	8 38 0	...	...	...	Do.
	f	8 49 0	...	...	...	
,, 25th	P	9 34 57	...	...	...	
	S	9 47 32	...	...	...	
	L	10 18 47	...	...	...	
	M	10 43 22	19	16	...	
	F	11 55 0	...	...	...	
,, 25th	P	9 34 57	...	...	...	
	S	9 47 32	...	...	...	
	L	10 18 47	...	...	...	
	M	10 44 49	17	...	9	
	F	11 41 0	...	...	...	
,, 27th	P	21 29 53	...	...	...	
	S	21 38 2	...	...	...	
	L	21 49 38	...	...	...	
	F	22 23 0	...	...	...	
,, 27th	P	21 29 53	...	...	...	
	S	21 38 2	...	...	...	
	L	21 49 38	...	...	...	
	F	22 23 0	...	...	...	
,, 29th	P	21 7 36	...	...	...	Feeble shock.
	F	21 51 0	...	...	...	
,, 29th	P	21 7 36	...	...	...	Do.
	F	21 51 0	...	...	...	
,, 30th	P	12 23 5	...	...	...	
	S	12 29 46	...	...	...	
	L	12 37 20	...	...	...	
	F	13 19 0	...	...	...	
,, 30th	P	12 23 5	...	...	...	
	S	12 29 46	...	...	...	
	L	12 37 20	...	...	...	
	F	13 11 0	...	...	...	
Aug. 1st	P	0 12 1	...	...	...	
	S	0 18 45	...	...	...	
	L	0 14 30	...	...	...	
	F	0 37 0	...	...	...	

Seismic Disturbances, 1932—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_E					
Aug. 1st	P	6 12 1	...	...	...	
	S	6 13 45	...	...	...	
	L	6 14 30	...	...	...	
	F	6 33 0	...	...	...	
	A_N					
,, 2nd	Pe	4 32 39	...	...	...	Feeble shock.
	F	5 29 0	...	...	...	
	A_E					
,, 2nd	Pe	4 32 39	...	...	...	Do.
	F	5 28 0	...	...	...	
	A_N					
,, 10th	P	16 38 21	...	...	...	Very feeble shock.
	F	17 8 0	...	...	...	
	A_E					
,, 10th	P	16 38 21	...	...	...	Do.
	F	17 6 0	...	...	...	
	A_N					
,, 12th	P	3 37 7	...	...	...	
	S	3 47 37	...	...	...	
	L	4 9 29	...	...	...	
	M	4 22 29	20	17	...	
	F	6 12 0	...	...	...	
	A_E					
,, 12th	P	3 37 7	...	...	...	
	S	3 47 37	...	...	...	
	L	4 9 29	...	...	...	
	M	4 23 15	21	...	18	
	F	6 23 0	...	...	...	
	A_N					
,, 13th	Pe	21 21 42	...	...	...	Distant feeble shock.
	F	22 50 0	...	...	...	
	A_E					
,, 13th	Pe	21 21 42	...	...	...	Do.
	F	22 55 0	...	...	...	
	A_N					
,, 14th	P	4 44 24	...	...	...	
	S	4 48 17	...	...	...	
	L	4 50 37	...	...	...	
	M	4 50 52	11	157	...	
	F	7 11 0	...	...	...	
	A_E					
,, 14th	P	4 44 24	...	...	...	
	S	4 48 17	...	...	...	
	L	4 50 37	...	...	...	
	M	4 55 52	11	...	70	
	F	6 58 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_N					
Aug. 14th	P	7 15 36	...	...	...	
	S	7 19 37	...	...	...	
	L	7 21 52	...	...	...	
	M	7 22 59	5	5	...	
	F	7 42 0	...	...	...	
	A_E					
,, 14th	P	7 15 36	...	...	...	
	S	7 19 37	...	...	...	
	L	7 21 52	...	...	...	
	M	Movements very small.				
	F	7 44 0	...	...	...	
	A_N					
,, 14th	P	12 36 5	...	...	...	Feeble shock.
	M	12 50 25	14	3	...	
	F	13 44 0	...	...	...	
	A_E					
,, 14th	P	12 36 5	...	...	...	Do.
	M	12 46 39	10	...	2	
	F	13 47 0	...	...	...	
	A_N					
,, 16th	e	21 59 0	...	...	...	Tremors.
	f	22 17 0	...	...	...	
	A_E					
,, 16th	e	21 59 0	...	...	...	Do.
	f	22 17 0	...	...	...	
	A_N					
,, 17th	e	18 40 0	...	...	...	Do.
	f	19 5 0	...	...	...	
	A_E					
,, 17th	e	18 40 0	...	...	...	Do.
	f	19 5 0	...	...	...	
	A_N					
,, 19th	e	19 8 0	...	...	...	Do.
	f	19 24 0	...	...	...	
	A_E					
,, 19th	e	19 8 0	...	...	...	Do.
	f	19 29 0	...	...	...	
	A_N					
,, 21st	P	4 24 3	...	...	...	
	S	4 30 51	...	...	...	
	L	4 38 55	...	...	...	
	M	4 43 7	22	21	...	
	F	5 47 0	...	...	...	
	A_E					
,, 21st	P	4 24 3	...	...	...	
	S	4 30 51	...	...	...	
	L	4 38 55	...	...	...	
	M	4 48 0	17	...	10	
	F	5 59 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_N					
Aug. 22nd	Pe	11 21 18	...	...	...	
	S	11 27 55	...	...	...	
	L	11 36 11	..	...	...	
	M	11 43 34	2	5	...	
	F	12 40 0	...	...	...	
	A_E					
,, 22nd	Pe	11 21 18	...	...	...	
	S	11 27 55	...	...	...	
	L	11 36 11	...	...	...	
	M	11 42 44	12	...	6	
	F	12 38 0	...	...	...	
	A_N					
,, 23rd	e	23 3 0	...	...	...	Tremors.
	f	23 16 0	...	...	...	
	A_E					
,, 23rd	e	23 3 0	...	...	...	Do.
	f	23 1 0	...	...	...	
	A_N					
,, 24th	P	12 18 53	...	...	...	Feeble shock.
	F	13 29 0	...	...	...	
	A_E					
,, 24th	P	12 18 53	...	...	...	Do.
	F	13 36 0	...	...	...	
	A_N					
Sept. 3rd	P	12 9 25	...	...	...	
	S	12 17 47	...	...	...	
	L	12 30 50	...	...	...	
	M	12 40 21	16	4	...	
	F	13 12 0	...	...	...	
	A_E					
,, 3rd	P	12 9 25	...	...	...	
	S	12 17 47	...	...	...	
	L	12 30 50	...	...	...	
	M	12 42 0	15	...	4	
	F	13 20 0	...	...	...	
	A_N					
,, 8th	P	7 29 41	...	...	...	
	S	7 33 16	...	...	...	
	L	7 35 30	...	...	...	
	M	7 40 5	9	4	...	
	F	8 28 0	...	...	...	
	A_E					
,, 8th	P	7 29 41	...	...	...	
	S	7 33 16	...	...	...	
	L	7 35 30	...	...	...	
	M	7 41 7	10	...	3	
	F	8 17 0	...	...	...	
	A_N					
,, 9th	P	7 0 52	...	...	...	Very feeble shock.
		7 38 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_E					
Sept. 9th	P	7 0 52	...	...	...	Very feeble shock.
	F	7 36 0	...	...	...	
	A_N					
,, 9th	P	13 49 55	...	...	...	
	S	13 57 4	...	...	...	
	L	14 6 52	...	...	...	
	F	15 30 0	...	...	...	
	AE	Record extremely faint.				
	A_N					
,, 9th	e	17 19 0	...	...	...	Tremors.
	f	18 34 0	...	...	...	
	AE	Record extremely faint.				
	A_N					
,, 11th		Record defective.				
	A_E					
,, 11th	P	14 18 58	...	...	...	
	S	14 23 36	...	...	...	
	L	14 27 6	...	...	...	
	F	14 54 0	...	...	...	
	A_N					
,, 14th	e	9 30 0	...	...	...	Do.
	f	9 51 0	...	...	...	
	A_E					
,, 14th	e	9 30 0	...	...	...	Do.
	f	9 51 0	...	...	...	
	A_N					
,, 15th	P	11 22 8	...	...	...	
	S	11 29 15	...	...	...	
	L	11 39 3	...	...	...	
	M	11 48 56	15	5	...	
	F	12 41 0	...	...	...	
	A_E					
,, 15th	P	11 22 8	...	...	...	
	S	11 29 15	...	...	...	
	L	11 39 3	...	...	...	
	M	11 51 7	16	...	3	
	F	12 22 0	...	...	...	
	A_N					
,, 15th	P	14 16 9	...	...	...	
	S	14 24 9	...	...	...	
	L	14 35 16	...	...	...	
	M	15 5 28	17	15	...	
	F	16 45 0	...	...	...	
	A_E					
,, 15th	P	14 16 9	...	...	...	
	S	14 24 9	...	...	...	
	L	14 35 16	...	...	...	
	M	14 58 8	18	...	8	
	F	16 32 0	...	...	...	

Date.	Phase.	Time H. M. S.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_N					
Sept. 20th	P	15 48 35	...	...	...	
	S	15 52 42	...	...	...	
	L	15 55 23	...	...	...	
	M	16 4 18	11	3	...	
	F	17 9 0	...	...	...	
	A_E					
,, 20th	P	15 48 35	...	...	...	
	S	15 52 42	...	...	...	
	L	15 55 23	...	...	...	
	M	16 2 11	9	...	1	
	F	16 48 0	...	...	...	
	A_N					
,, 23rd	P	14 31 48	...	...	...	
	S	14 39 38	...	...	...	
	L	14 51 38	...	...	...	
	M	14 53 31	13	7	...	
	F	17 10 0	...	...	...	
	A_E					
,, 23rd	P	14 31 48	...	...	...	
	S	14 39 38	...	...	...	
	L	14 51 38	...	...	...	
	M	14 53 59	15	...	5	
	F	16 49 0	...	...	...	
	A_N					
,, 25th	Pe	22 49 44	...	...	...	Very feeble shock.
	F	23 7 0	...	...	...	
	A_E					
,, 25th	Pe	22 49 44	...	...	...	Do.
	F	23 7 0	...	...	...	
	A_N					
,, 26th	P	19 29 19	...	...		
	S	19 36 12	...	...		
	L, M, F	Record defective.				
	A_E					
,, 26th	P	19 29 19	...	...	...	
	S	19 36 12	...	...	...	
	L	19 45 9	...	...	...	
	M	19 50 55	18	...	15	
	F	Mixed up with next shock.				
	A_N	Record defective.				
	A_E					
,, 26th	P	21 35 35	...	...	...	Feeble shock.
	S	21 42 29	...	...	...	
	Le	21 50 4	...	...	...	
	F	22 53 0	...	...	...	
	A_N					
,, 27th	Pe	18 54 56	...	...	...	Very feeble shock.
	F	19 39 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_E					
Sept. 27th	Pe	18 54 56	...	...	...	Very feeble shock.
	F	19 39 0	...	...	...	
	A_N					
,, 28th	P	17 0 50	...	...	...	Do.
	F	17 49 0	...	...	...	
	A_E					
,, 28th	P	17 0 50	...	...	...	Do.
	F	17 47 0	...	...	...	
	A_N					
,, 29th	P	4 5 59	...	...	...	
	S	4 12 53	...	...	...	
	L	4 21 36	...	...	...	
	F	5 59 0	...	...	...	
	A_E					
,, 29th	P	4 5 59	...	...	...	
	S	4 12 53	...	...	...	
	L	4 21 36	...	...	...	
	F	5 23 0	...	...	...	
	A_N					
,, 29th	Pe	6 46 43	...	...	...	Feeble local shock.
	M	6 49 30	9	2	...	
	F	7 9 0	...	...	...	
	A_E					
,, 29th	Pe	6 46 43	...	...	...	Do.
	M	6 49 19	5	...	1	
	F	7 12 0	...	...	...	
	A_N					
,, 29th	e	14 39 0	...	...	...	Feeble tremors.
	f	15 7 0	...	...	...	
	A_E					
,, 29th	e	14 39 0	...	...	...	Do.
	f	15 7 0	...	...	...	
	A_N					
,, 29th	P	17 57 44	...	...	...	
	S	18 6 58	...	...	...	
	L	18 23 21	...	...	...	
	M	18 32 51	15	7	...	
	F	20 17 0	...	...	...	
	A_E					
,, 29th	P	17 57 44	...	...	...	
	S	18 6 58	...	...	...	
	L	18 23 21	...	...	...	
	M	18 31 15	14	3	...	
	F	20 12 0	...	...	...	
	A_N					
,, 30th	Pe	6 20 42	...	...	...	Very feeble shock.
	F	6 36 0	...	...	...	
	A_E					
,, 30th	Pe	6 20 42	...	...	...	Do.
	F	6 36 0	...	...	...	

Seismic Disturbances, 1932—*contd.*

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Oct. 1st	A_N Pe	20 21 2	...	...	...	Feeble shock.
	F	20 46 0	...	...	...	
	A_E Pe	20 21 2	...	...	...	Do.
	F	20 46 0	...	...	...	
,, 2nd	A_N Pe	3 17 26	...	...	...	Very feeble shock.
	F	Mixed up with the next shock.				
	A_E Pe	3 17 26	...	...	...	Do.
	F	Mixed up with the next shock.				
,, 2nd	A_N Pe	3 27 14	...	...	...	
	S	3 31 29	...	...	...	
	L	3 34 37	...	...	...	
	M	3 37 38	16	23	...	
	F	Mixed up with the next shock.				
,, 2nd	A_E Pe	3 27 14	...		...	
	S	3 31 29	...	...	...	
	L	3 34 37				
	M	3 37 7	11	...	5	
	F	Mixed up with the next shock.				
,, 2nd	A_N Pe	4 11 53	...	...	...	
	M	4 30 6	20	10	...	
	F	5 37 0	...	...	...	
,, 2nd	A_E Pe	4 11 53	...	...	...	
	M	4 31 23	20	...	6	
	F	5 20 0	...	...	...	
,, 9th	A_N P	12 58 12	...	...	...	Feeble shock.
	F	13 58 0	...	...	...	
,, 9th	A_E P	12 58 12	...	...	...	Do.
	F	13 56 0	...	...	...	
,, 11th	A_N P	19 27 52	...	...	...	Very feeble shock.
	F	19 38 0	...	...	...	
,, 11th	A_E P	19 27 52	...	...	...	Do.
	F	19 38 0	...	...	...	
,, 12th	A_N e	20 16 0	...	...	...	Tremors.
	f	20 33 0	...	...	...	
,, 12th	A_E e	20 16 0	...	...	...	Do.
	f	20 33 0	...	...	...	

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Oct. 13th	A_N Po	13 56 51	...	...	...	Very feeble shock.
	F	14 14 0	...	...	...	
,, 13th	A_E Pe	13 56 51	...	...	...	Do.
	F	14 14 0	...	...	...	
,, 14th	A_N P	1 59 49	.	...	...	Feeble shock.
	S	2 2 5	...	...	...	
	L	2 2 51	...	..	...	
	F	2 16 0	...	...	...	
,, 14th	A_E P	1 59 49	...	...	...	Do.
	S	2 2 5	...	...	...	
	L	2 2 51	...	...	...	
	F	2 16 0	...	...	...	
,, 16th	A_N P	12 21 23	...	...	...	
	S	12 31 55	...	...	...	
	L	12 53 54	...	...	...	
	M	13 8 14	18	18	...	
	F	15 1 0	...	...	...	
,, 16th	A_E P	12 21 23	...	...	...	
	S	12 31 55	...	...	...	
	L	12 53 54	...	...	...	
	M	13 6 48	18	...	7	
	F	14 54 0	...	...	...	
,, 17th	A_N P	13 38 4	...	...	...	Do.
	F	15 2 0	...	...	...	
,, 17th	A_E P	13 38 4	...	...	...	Do.
	F	15 1 0	...	...	...	
,, 18th	A_N P	4 15 48	...	...	...	Do.
	F	5 6 0	...	...	...	
,, 18th	A_E P	4 18 48	...	...	...	Do.
	F	5 0 0	...	...	...	
,, 23rd	A_N Pe	0 27 2	...	...	...	Very feeble shock.
	F	Mixed up with the next shock.				
,, 23rd	A_E Pe	0 27 2	...	...	...	Do.
	F	Mixed up with the next shock.				
,, 23rd	A_N Pe	1 7 2	...	...	...	Feeble shock.
	F	1 51 0	...	...	...	

Date.	Phase.	Time. G. M. T.	Period (Sec.).	Amplitude (μ) A_N	Amplitude (μ) A_N	Remarks.
1932.		H. M. S.				
Oct. 23rd	A_E Pe	1 7 2	...	...	...	Feeble Shock.
	F	2 3 0	...	...	...	
,, 23rd	A_N Pe	13 42 42	...	...	...	Very feeble shock.
	F	14 10 0	...	...	...	
,, 23rd	A_E Pe	13 42 42	...	...	...	Do.
	F	14 10 0	...	...	...	
,, 23rd	A_N P	21 36 13	...	...	...	Feeble shock.
	F	22 25 0	...	...	...	
,, 23rd	A_E P	21 36 13	...	...	...	Do.
	F	22 25 0	...	...	...	
,, 25th	A_N P	17 20 10	...	...	...	Do.
	F	17 57 0	...	...	...	
,, 25th	A_E P	17 20 10	...	...	...	Do.
	F	17 53 0	...	...	...	
,, 27th	A_N P	1 11 11	...	...	...	Very feeble shock.
	F	1 33 0	...	...	...	
,, 27th	A_E P	1 11 15	...	...	...	Do
	F	1 33 0	...	...	...	
,, 27th	A_N Pe	23 42 40	...	...	...	Do.
,, 28th	F	0 5 0	...	...	...	
,, 27th	A_E Pe	23 42 40	...	...	...	Do.
,, 28th	F	0 5 0	...	...	...	
,, 28th	A_N P	11 18 54	...	...	...	Feeble shock.
	F	12 2 0	...	...	...	
,, 28th	A_E P	11 18 54	...	...	...	Do.
	F	12 2 0	...	...	...	
,, 29th	A_N P	10 7 59	...	...	..	Very feeble shocs.
	F	10 22 0	...	..	...	
,, 29th	A_E P	10 7 59	...	...	...	Do.
	F	10 22 0	...	...	...	

Date.	Phase.	Time. G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932		H. M. S.				
	A_N					
	P	11 13 26	...	...	...	
Oct. 29th	S	11 17 21	...	...	...	
	L	11 19 59	...	...	...	
	M	11 21 31	15	47	...	
	F	13 32 0	...	...	...	
	A_E					
	P	11 13 26	...	...	...	
,, 29th	S	11 17 21	...	...	...	
	L	11 19 59	...	...	...	
	M	11 20 20	10	...	13	
	F	13 20 0	...	...	...	
	A_N					
	P	21 0 22	...	...	...	
,, 30th	M	21 47 8	17	9	...	Distant shock.
	F	23 33 0	...	...	...	
	A_E					
	P	21 0 22	...	...	...	Do.
,, 30th	M	21 45 39	22	...	6	
	F	23 9 0	...	...	...	
	A					
	P	11 23 40	...	...	...	Do.
Nov. 2nd	F	13 33 0	...	...	...	
	A_E					
	P	11 23 40	...	...	...	Do.
,, 2nd	F	13 20 0	...	...	...	
	A_N					
	P	19 53 45	...	...	...	Feeble shock.
,, 3rd	S	20 2 36	...	...	...	
	F	20 39 0	...	...	...	
	A_E					
	P	19 53 45	...	...	...	Do.
,, 3rd	S	20 2 36	...	...	...	
	F	20 37 0	...	...	...	
	A_N					
	Pc	6 51 39	...	...	...	Very feeble shock.
,, 6th	F	7 16 0	...	...	...	
	A_E					
	Pc	6 51 39	...	...	...	Do.
,, 6th	F	7 16 0	...	...	...	
	A_N					
	c	1 29 0	...	...	...	Tremors.
,, 8th	f	1 46 0	...	...	...	
	A_E					
	c	1 29 0	...	...	...	
,, 8th	f	1 42 0	...	...	...	
	A_N					
	P	18 34 43	...	...	...	
,, 9th	S	18 38 13	...	...	...	
	L	18 40 14	...	...	...	
	M	18 40 36	7	25	...	
	F	19 46 0	...	...	...	

Date.	Phase.	Time. G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Nov. 9th	A_E	Instrument under adjustment.				
	A_N					
,, 10th	Pc	2 12 4	...	...	...	Very feeble shock.
	F	2 35 0	...	...	...	
,, 10th	A_E	Instrument under adjustment.				
	A_N					
,, 10th	Pc	6 26 45	...	...	...	Do.
	F	6 38 0	...	...	...	
	A_E					
,, 10th	Pc	6 26 45	...	...	...	Do.
	F	6 38 0	...	...	...	
	A_N					
,, 10th	Pc	13 12 29	...	...	...	Do.
	F	Mixed up with the next shock.				
	A_E					
,, 10th	Pc	13 12 29	...	...	...	Do.
	F	Mixed up with the next shock.				
	A_N					
,, 10th	Pc	13 25 28	...	...	...	Feeble shock.
	F	13 43 0	...	...	...	
	A_E					
,, 10th	Pc	13 25 28	...	...	...	Do.
	F	13 43 0	...	...	...	
	A_N					
,, 13th	P	4 56 25	...	...	...	
	S	5 4 1	...	...	...	
	L	5 15 12	...	...	...	
	M	5 16 17	14	10	...	
	F	7 1 0	...	...	...	
	A_E					
,, 13th	P	4 56 25	...	...	...	
	S	5 4 1	...	...	...	
	L	5 15 12	...	...	...	
	M	5 16 26	14	...	9	
	F	7 12 0	...	...	...	
	A_N					
,, 13th	Pc	16 1 21	...	...	...	Do.
	F	17 13 0	...	...	...	
	A_E					
,, 13th	Pc	16 1 21	...	...	...	Do.
	F	17 13 0	...	...	...	
	A_N					
,, 14th	P	0 44 42	...	...	...	Very feeble shock.
	F	1 13 0	...	...	...	
	A_E					
,, 14th	P	0 44 42	...	...	...	
	F	1 11 0	...	...	...	
	A_N					
,, 14th	Pc	21 34 41	...	...	...	Do.
	F	21 55 0	...	...	...	

Date.	Phase.	Time. G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
	A_E					
Nov. 14th	Pc	21 34 41	...	...	...	Very feeble shock.
	F	21 52 0	...	...	...	
	A_N					
,, 16th	P	6 29 44	...	...	...	Do.
	F	6 55 0	...	...	...	
	A_E					
,, 16th	P	6 29 44	...	...	...	Do.
	F	6 55 0	...	...	...	
	A_N					
,, 17th	c	6 26 0	...	...	...	Tremors.
	f	8 14 0	...	...	...	
	A_E					
,, 17th	c	6 26 0	...	...	...	Do.
	f	8 8 0	...	...	...	
	A_N					
,, 18th	P	13 55 57	...	...	...	
	S	14 2 57	...	...	...	
	L	14 12 7	...	...	...	
	F	15 20 0	...	...	...	
	A_E					
,, 18th	P	13 55 57	...	...	...	
	S	14 2 57	...	...	...	
	L	14 12 7	...	...	...	
	F	15 19 0	...	...	...	
	A_N					
,, 19th	P	21 8 44	...	...	...	Very feeble shock.
	F	21 25 0	...	...	...	
	A_E					
,, 19th	P	21 8 44	...	...	...	Do.
	F	21 27 0	...	...	...	
	A_N					
,, 20th	Pc	19 19 14	...	...	...	Do.
	F	19 29 0	...	...	...	
	A_E					
,, 20th	Pc	19 19 14	...	...	...	Do.
	F	19 32 0	...	...	...	
	A_N					
,, 21st	Pc	14 54 34	...	...	...	Do.
	F	15 13 0	...	...	...	
	A_E					
,, 21st	Pc	14 54 34	...	...	...	Do.
	F	15 13 0	...	...	...	
	A_N					
,, 22nd	P	15 1 11	...	...	...	
	S	15 9 4	...	...	...	
	L	15 20 26	...	...	...	
	F	16 0 0	...	...	...	

Seismic Disturbances, 1932—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Nov. 22nd	A_E P	15 1 11	...	...	...	
	S	15 9 4	...	...	...	
	L	15 20 26	...	...	...	
	F	15 58 0	...	...	...	
,, 24th	A_N P	10 45 21	...	...	...	Very feeble local shock.
	F	10 52 0	...	...	...	
,, 24th	A_E P	10 45 21	...	...	...	Do.
	F	10 51 0	...	...	...	
,, 26th	A_N P	4 34 24	...	...	...	
	S	4 42 44	...	...	...	
	L	4 55 36	...	...	...	
	M	5 2 10	15	5	...	
	F	6 7 0	...	...	...	
,, 26th	A_E P	4 34 24	...	...	...	
	S	4 42 44	...	...	...	
	L	4 55 36	...	...	...	
	M	5 3 13	17	...	7	
	F	6 7 0	...	...	...	
,, 27th	A_N P	3 47 52	...	...	...	Feeble shock.
	F	4 51 0	...	...	...	
,, 27th	A_E P	3 47 52	...	...	...	Do.
	F	4 52 0	...	...	...	
,, 27th	A_N e	9 43 0	...	...	...	Tremors.
	f	10 14 0	...	...	...	
,, 27th	A_E e	9 50 0	...	...	...	Do.
	f	10 15 0	...	...	...	
,, 28th	A_N e	21 59 0	...	...	...	Do
	f	22 21 0	...	...	...	
,, 28th	A_E e	21 59 0	...	...	...	Do
	f	22 28 0	...	...	...	
,, 29th	A_N Pe	2 6 39	...	...	...	Feeble shock.
	F	3 4 0	...	...	...	
,, 29th	A_E Pe	2 6 39	...	...	...	Do.
	F	3 6 0	...	...	...	
,, 29th	A_N e	7 11 0	...	...	...	Tremors.
	f	7 26 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Nov. 29th	A_E e	7 11 0	...	...	...	Tremors.
	f	7 38 0	...	...	...	
,, 29th	A_N P	11 30 39	...	...	...	
	Se	11 40 32	...	...	...	
	L	11 59 28	...	...	...	
	M	12 30 19	22	8	...	
	F	13 46 0	...	...	...	
,, 29th	A_E P	11 30 39	...	...	...	
	Se	11 40 32	...	...	...	
	L	11 59 28	...	...	...	
	M	12 27 10	24	...	12	
	F	13 53 0	...	...	...	
,, 30th	A_N Pe	2 11 1	...	...	...	Very feeble shock.
	F	2 38 0	...	...	...	
,, 30th	A_E Pe	2 11 1	...	...	...	Do.
	F	2 35 0	...	...	...	
,, 30th	A_N e	4 7 0	...	...	...	Tremors.
	f	Mixed up with the next shock.				
,, 30th	A_E e	4 7 0	...	...	...	Do.
	f	Mixed up with the next shock.				
,, 30th	A_N P	4 15 38	...	...	...	Feeble shock.
	F	4 59 0	...	...	...	
,, 30th	A_E P	4 15 38	...	...	...	Do.
	F	4 59 0	...	...	...	
,, 30th	A_N P	8 13 21	...	...	...	Do.
	F	8 33 0	...	...	...	
,, 30th	A_E P	8 13 21	...	...	...	Do.
	F	8 33 0	...	...	...	
,, 30th	A_N e	15 3 0	...	...	...	Tremors.
	f	15 23 0	...	...	...	
,, 30th	A_E e	15 3 0	...	...	...	Do.
	f	15 23 0	...	...	...	
,, 30th	A_N P	17 1 12	...	...	...	
	S	17 4 44	...	...	...	
	L	17 6 10	...	...	...	
	F	17 27 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Nov. 30th	A_E P	17 1 12	...	...	...	
	S	17 4 44	...	...	...	
	L	17 6 10	...	...	...	
	F	17 32 0	...	...	...	
Dec. 3rd	A_N e	7 12 0	...	...	...	Tremors.
	f	8 5 0	...	...	...	
,, 3rd	A_E e	7 12 0	...	...	...	Do.
	f	8 5 0	...	...	...	
,, 3rd	A_N e	9 24 0	...	...	...	Do.
	f	9 46 0	...	...	...	
,, 3rd	A_E e	9 24 0	...	...	...	Do.
	f	9 46 0	...	...	...	
,, 3rd	A_N Pe	17 45 44	...	...	...	Distant feeble shock.
	F	19 18 0	...	...	...	
,, 3rd	A Pe	17 45 44	...	...	...	Do.
	F	19 19 0	...	...	...	
,, 4th	A_N Pe	4 17 29	...	...	...	Do
	F	5 27 0	...	...	...	
,, 4th	A_E Pe	4 17 29	...	...	...	Do.
	F	5 39 0	...	...	...	
,, 4th	A_N P	8 20 10	...	...	...	
	S	8 27 20	...	...	...	
	L	8 37 23	...	...	...	
	M	8 42 20	22	68	...	
	F	Mixed up with the next shock.				
,, 4th	A_E P	8 20 10	...	...	...	
	S	8 27 20	...	...	...	
	L	8 37 23	...	...	...	
	M	8 42 57	22	...	104	
	F	Mixed up with the next shock.				
,, 4th	A_N P	10 41 54	...	...	...	
	S	10 48 59	...	...	...	
	L	10 58 58	...	...	...	
	M	11 10 26	14	4	...	
	F	12 23 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A N	Amplitude (μ) A E	Remarks.
1932.		H. M. S.				
Dec. 4th	A P	10 41 54	...	...	...	
	S	10 48 59	...	...	...	
	L	10 58 58	...	...	...	
	M	11 4 49	20	...	12	
	F	12 21 0	...	...	...	
,, 7th	A N P	16 41 44	...	...	...	Distant shock.
	M	17 52 58	16	8	...	
	F	19 17 0	...	...	...	
,, 7th	A E P	16 41 44	...	...	...	Do.
	M	17 54 13	18	...	9	
	F	19 12 0	...	...	...	
,, 8th	A N Pe	15 27 34	...	...	...	
	S	15 36 5	...	...	...	
	Le	15 51 42	...	...	...	
	M	15 58 17	12	3	...	
	F	16 25 0	...	...	...	
,, 8th	A E Pe	15 27 34	...	...	...	
	S	15 36 5	...	...	...	
	Le	15 49 13	...	...	...	
	M	15 58 19	11	...	1	
	F	16 29 0	...	...	...	
,, 9th	A N P	8 54 41	...	...	...	Distant feeble shock.
	F	10 26 0	...	...	...	
,, 9th	A E P	8 54 41	...	...	...	Do.
	F	10 31 0	...	...	...	
,, 10th	A N Pe	5 15 44	...	...	...	Feeble shock.
	F	6 15 0	...	...	...	
,, 10th	A E Pe	5 15 44	...	...	...	Do.
	F	6 14 0	...	...	...	
,, 10th	A N e	10 30 0	...	...	...	Tremors.
	f	11 51 0	...	...	...	
,, 10th	A E e	10 30 0	...	...	...	Do.
	f	11 53 0	...	...	...	
,, 11th	A N P	4 31 4	...	...	...	
	S	4 35 19	...	...	...	
	L	4 37 55	...	...	...	
	M	4 49 30	11	4	...	
	F	6 26 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A N	Amplitude (μ) A E	Remarks.
1932.		H. M. S.				
Dec. 11th	A E P	4 31 4	...	...	...	
	S	4 35 19	...	...	...	
	L	4 37 55	...	...	...	
	M	4 43 30	14	...		
	F	6 26 0	...	...	...	
,, 11th	A N Pe	7 41 20	...	...	...	Feeble shock.
	F	8 19 0	...	...	...	
,, 11th	A E Pe	7 47 20	...	...	...	Do.
	F	8 16 0	...	...	...	
,, 13th	A N Pe	14 47 39	...	...	...	Very feeble shock.
	F	15 8 0	...	...	...	
,, 13th	A E Pe	14 47 39	...	...	...	Do.
	F	15 3 0	...	...	...	
,, 14th	A N Pe	0 55 39	...	...	...	Do.
	F	1 13 0	...	...	...	
,, 14th	A E Pe	0 55 39	...	...	...	Do.
	F	1 13 0	...	...	...	
,, 15th	A N P	19 42 3	...	...	...	
	S	19 48 38	...	...	...	
	L	19 55 36	...	...	...	
	M	20 5 11	12	4	...	
	F	20 39 0	...	...	...	
,, 15th	A E P	19 42 3	...	...	...	
	S	19 48 38	...	...	...	
	L	19 55 56	...	...	...	
	M	20 7 58	14	...	5	
	F	20 40 0	...	...	...	
,, 15th	A N Loss of record.					
,, 16th	A E Pe	22 8 41	...	...	...	Very feeble shock.
	F	22 23 0	...	...	...	
,, 16th	A N Pe	7 23 40	...	...	...	Feeble shock.
	F	8 7 0	...	...	...	
,, 16th	A E Pe	7 23 40	...	...	...	Do.
	F	7 59 0	...	...	...	
,, 17th	A N P	9 4 59	...	...	...	
	S	9 8 48	...	...	...	
	L	9 11 24	...	...	...	
	F	9 35 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A N	Amplitude (μ) A E	Remarks.
1932.		H. M. S.				
Dec. 17th	A E P	9 4 59	...	...	...	
	S	9 8 48	...	...	...	
	L	9 11 24	...	...	...	
	F	9 33 0	...	...	...	
,, 18th	A N e	7 14 0	...	...	...	Tremors.
	f	7 45 0	...	...	...	
,, 18th	A E e	7 15 0	...	...	...	Do.
	f	7 46 0	...	...	...	
,, 19th	A N e	7 50 0	...	...	...	Do.
	f	8 12 0	...	...	...	
,, 19th	A E e	7 49 0	...	...	...	Do.
	f	8 13 0	...	...	...	
,, 20th	A N Pe	12 51 23	...	...	...	Very feeble shock.
	F	13 27 0	...	...	...	
,, 20th	A E Pe	12 51 23	...	...	...	Do.
	F	13 25 0	...	...	...	
,, 20th	A N Pe	22 35 8	...	...	...	Do.
	F	22 52 0	...	...	...	
,, 20th	A E Pe	22 35 8	...	...	...	Do.
	F	22 46 0	...	...	...	
,, 21st	A N P	4 51 29	...	...	...	
	S	4 52 59	...	...	...	
	L	4 53 47	...	...	...	
	M	4 55 2	7	3	...	
	F	5 19 0	...	...	...	
,, 21st	A E P	4 51 29	...	...	...	
	S	4 52 59	...	...	...	
	L	4 53 47	...	...	...	
	M	4 54 27	10	...	3	
	F	5 19 0	...	...	...	
,, 21st	A N P	5 30 29	...	...	...	
	S	6 42 6	...	...	...	
	L	7 5 49	...	...	...	
	M	7 17 14	25	26	...	
	F	10 2 0	...	...	...	

Seismic Disturbances, 1932—*contd.*

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Dec. 21st	A_E P	6 30 29	...	...	...	
	S	6 42 6	...	...	...	
	L	7 5 49	...	...	...	
	M	7 14 29	30	...	104	
	F	9 53 0	...	...	...	
„ 22nd	A_N P	3 32 46	...	...	...	Very feeble shock.
	F	4 1 0	...	...	...	
„ 22nd	A_E P	3 32 46	...	...	...	Do.
	F	4 3 0	...	...	...	
„ 23rd	A_N Pe	18 30 50	...	...	...	Do.
	F	19 5 0	...	...	...	
„ 23rd	A_E Pe	18 30 50	...	...	...	Do.
	F	19 6 0	...	...	...	
„ 24th	A_N Pe	4 26 44	...	...	...	
	M	4 33 5	11	4	...	
	F	4 56 0	...	...	...	
„ 24th	A_E Pe	4 26 44	...	...	...	
	M	4 32 44	13	...	3	
	F	5 1 0	...	...	...	
„ 24th	A_N Pe	5 21 16	...	...	...	Feeble shock.
	F	5 49 0	...	...	...	
„ 24th	A_E Pe	5 21 16	...	...	...	Do.
	F	6 2 0	...	...	...	
„ 24th	A_N P	6 42 18	...	...	...	
	S	6 51 58	...	...	...	
	L	7 8 14	...	...	...	
	M	Movements small.				
	F	9 16 0	...	...	...	
„ 24th	A_E P	6 42 18	...	...	...	
	S	6 51 58	...	...	...	
	L	7 8 14	...	...	...	
	M	7 20 12	16	...	5	
	F	9 29 0	...	...	...	
„ 24th	A_N P	23 41 20	...	...	...	Very feeble shock.
„ 25th	F	0 4 0	...	...	...	
„ 24th	A_E P	23 41 20	...	...	...	Do.
„ 25th	F	0 6 0	...	...	...	
1932.		H. M. S.				
Dec. 25th	A_N P	2 10 23	...	...	...	
	S	2 15 17	...	...	...	
	L	2 19 2	...	...	...	
	M	2 24 3	15	371	...	
	F	Mixed up with the next shock.				
„ 25th	A_E P	2 10 23	...	...	...	
	S	2 15 17	...	...	...	
	L	2 19 2	...	...	...	
	M	2 24 43	15	...	268	
	F	Mixed up with the next shock.				
„ 25th	A_N P	6 19 0	...	...	...	Feeble shock.
	M	6 27 46	9	3	...	
	F	6 57 0	...	...	...	
„ 25th	A_E P	6 19 0	...	...	...	Do.
	M	6 26 56	11	...	2	
	F	6 49 0	...	...	...	
„ 25th	A_N Pe	7 55 20	...	...	...	Do.
	M	8 18 28	10	2	...	
	F	8 38 0	...	...	...	
„ 25th	A_E Pe	7 55 20	...	...	...	Do
	M	8 18 3	11	...	2	
	F	8 37 0	...	...	...	
„ 25th	A_N Pe	11 24 43	...	...	...	Do.
	M	11 37 36	7	2	...	
	F	11 57 0	...	...	...	
„ 25th	A_E Pe	11 24 43	...	...	...	Do.
	M	11 37 55	8	...	1	
	F	11 50 0	...	...	...	
„ 25th	A_N P	12 32 5	...	...	...	
	M	12 44 50	10	3	...	
	F	13 6 0	...	...	...	
„ 25th	A_E P	12 32 5	...	...	...	
	M	12 44 58	9	...	2	
	F	13 12 0	...	...	...	
„ 25th	A_N e	23 33 0	...	...	...	Tremors.
	f	23 43 0	...	...	...	
„ 25th	A_E e	23 33 0	...	...	...	Do.
	f	23 43 0	...	...	...	
„ 26th	A_N Pe	7 55 42	...	...	...	Feeble shock.
	F	8 16 0	...	...	...	
1932.		H. M. S.				
Dec. 26th	A_E Pe	7 55 42	...	...	...	Feeble shock.
	F	8 18 0	...	...	...	
„ 26th	A_N P	8 17 24	...	...	...	Do.
	F	8 35 0	...	...	...	
„ 26th	A_E P	8 17 24	...	...	...	Do.
	F	8 35 0	...	...	...	
„ 26th	A_N P	9 12 42	...	...	...	Do.
	F	9 50 0	...	...	...	
„ 26th	A_E P	9 12 42	...	...	...	Do.
	F	9 50 0	...	...	...	
„ 26th	A_N e	19 18 0	...	...	...	Tremors.
	f	19 41 0	...	...	...	
„ 26th	A_E e	19 18 0	...	...	...	Do.
	f	19 38 0	...	...	...	
„ 26th	A_N e	19 58 0	...	...	...	Do.
	f	20 11 0	...	...	...	
„ 26th	A_E e	19 58 0	...	...	...	Do.
	f	20 13 0	...	...	...	
„ 26th	A_N P	21 23 15	...	...	...	
	S	21 29 58	...	...	...	
	L	21 39 19	...	...	...	
	F	22 17 0	...	...	...	
„ 26th	A_E P	21 23 15	...	...	...	
	S	21 29 58	...	...	...	
	L	21 39 19	...	...	...	
	F	22 19 0	...	...	...	
	A_N P	22 41 21	...	...	...	Very feeble shock.
	F	23 0 0	...	...	...	
	A_E P	22 41 21	...	...	...	Do.
	F	23 0 9	...	...	...	
„ 27th	A_N P	23 32 27	...	...	...	Do.
	F	23 54 0	...	...	...	
„ 27th	A_E P	23 32 27	...	...	...	Do.
	F	23 54 0	...	...	...	
„ 28th	A_N e	0 46 0	...	...	...	Tremors.
	f	1 3 0	...	...	...	

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Dec. 28th	A_E e	0 46 0	...	...	...	Tremors.
	f	1 1 0	...	...	...	
,, 28th	A_N P	8 36 43	...	...	...	Feeble shock.
	F	9 3 0	...	...	...	
,, 28th	A_E P	8 36 43	...	...	...	Do.
	F	9 6 0	...	...	...	
,, 28th	A_N P	10 44 47	...	...	...	Do.
	F	11 7 0	...	...	...	
,, 28th	A_E P	10 44 47	...	...	...	Do.
	F	11 2 0	...	...	...	
,, 28th	A_N e	16 21 0	...	...	...	Tremors.
	f	16 32 0	...	...	...	

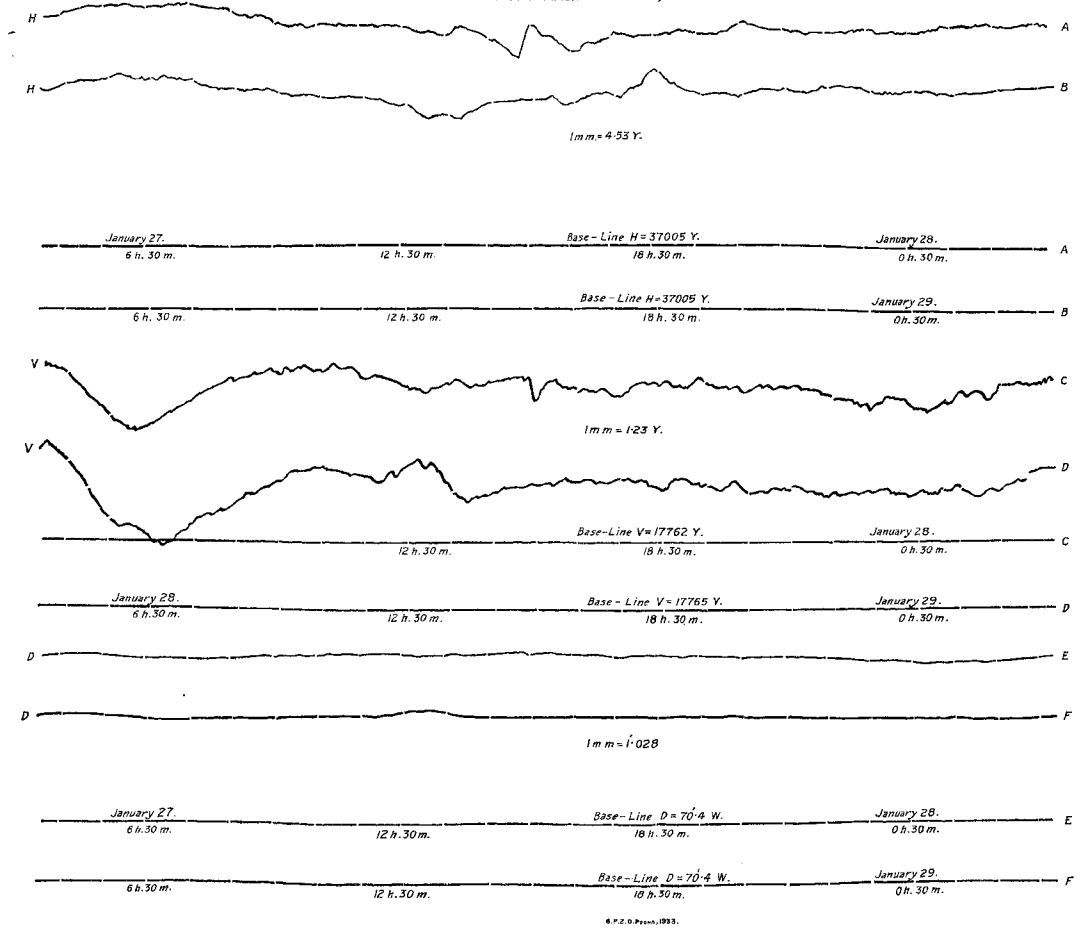
Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Dec. 28th	A_E e	16 21 0	...	...	...	Tremors.
	f	16 32 0	...	...	...	
,, 30th	A_N e	0 32 0	...	...	...	Do.
	f	0 51 0	...	...	...	
,, 30th	A_E e	0 32 0	...	...	...	Do.
	f	0 57 0	...	...	...	
,, 30th	A_N P	21 29 35	...	...	...	Feeble shock.
	F	21 59 9	...	...	...	
,, 30th	A_E P	21 29 35	...	...	...	Do.
	F	21 58 0	...	...	...	
,, 31st	A_N e	1 48 0	...	...	...	Tremors.
	f	Lost in shifting time.				

Date.	Phase.	Time G. M. T.	Period (Sec.)	Amplitude (μ) A_N	Amplitude (μ) A_E	Remarks.
1932.		H. M. S.				
Dec. 31st	A_E e	1 48 0	...	...	...	Tremors.
	f	2 3 0	...	...	...	
,, 31st	A_N P	6 41 13	...	...	...	
	S	6 49 30	...	...	...	
	L	7 1 51	...	...	...	
	M	7 7 9	18	10	...	
	F	8 29 0	...	...	...	
,, 31st	A_E P	6 41 13	...	...	...	
	S	6 49 30	...	...	...	
	L	7 1 51	...	...	...	
	M	7 7 21	21	...	14	
	F	8 35 0	...	...	...	

GIPD—217 Meteo Bombay.—8-8-34.—250.

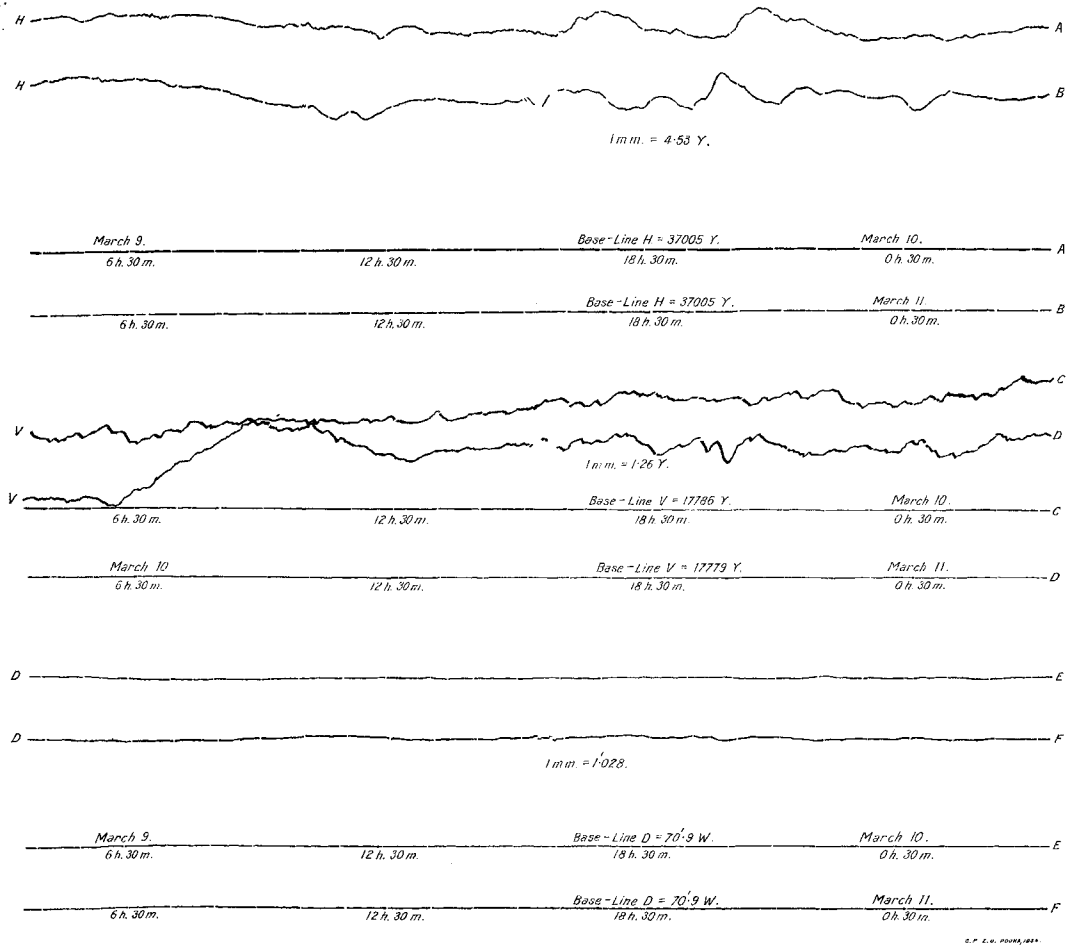
ALIBAG OBSERVATORY MAGNETOGRAMS, 1932.

Plate I.



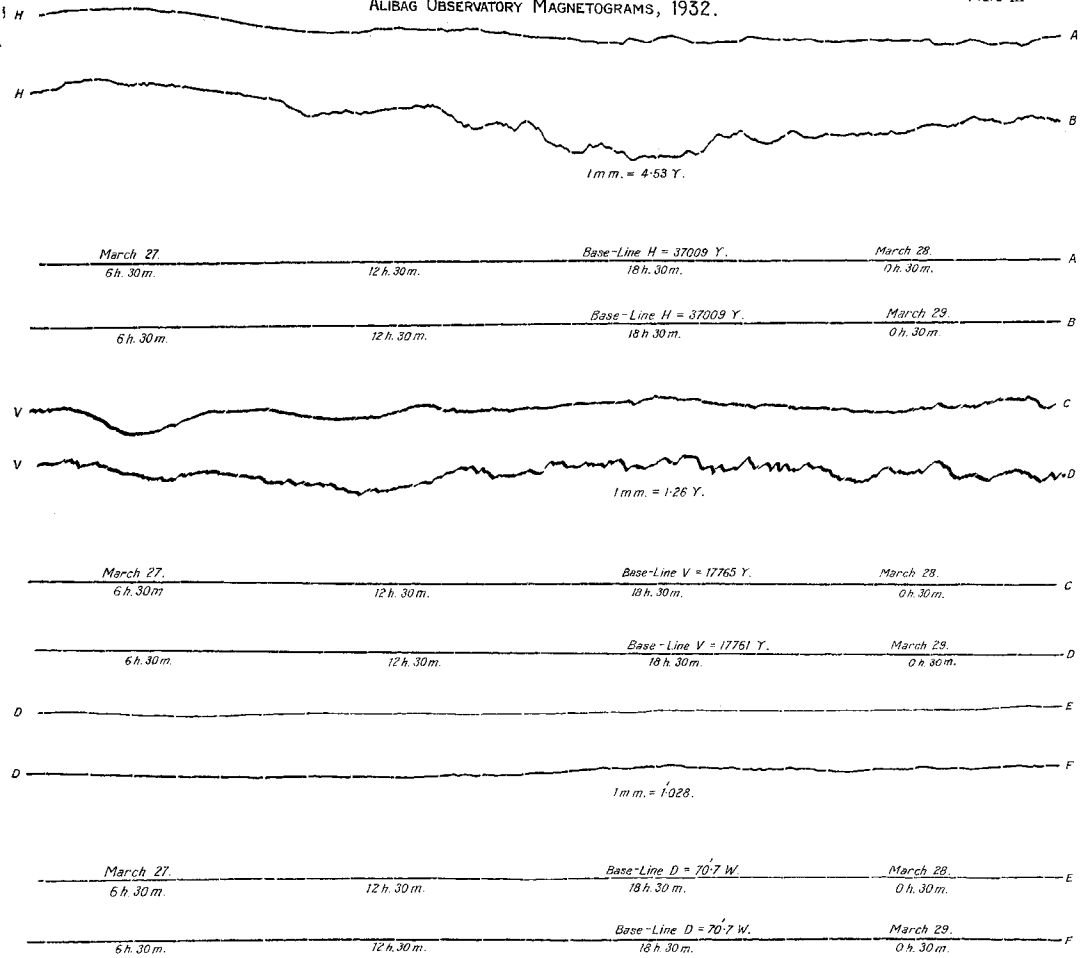
G.P.O. Press, 1933.

ALIBAG OBSERVATORY MAGNETOGRAMS, 1932.

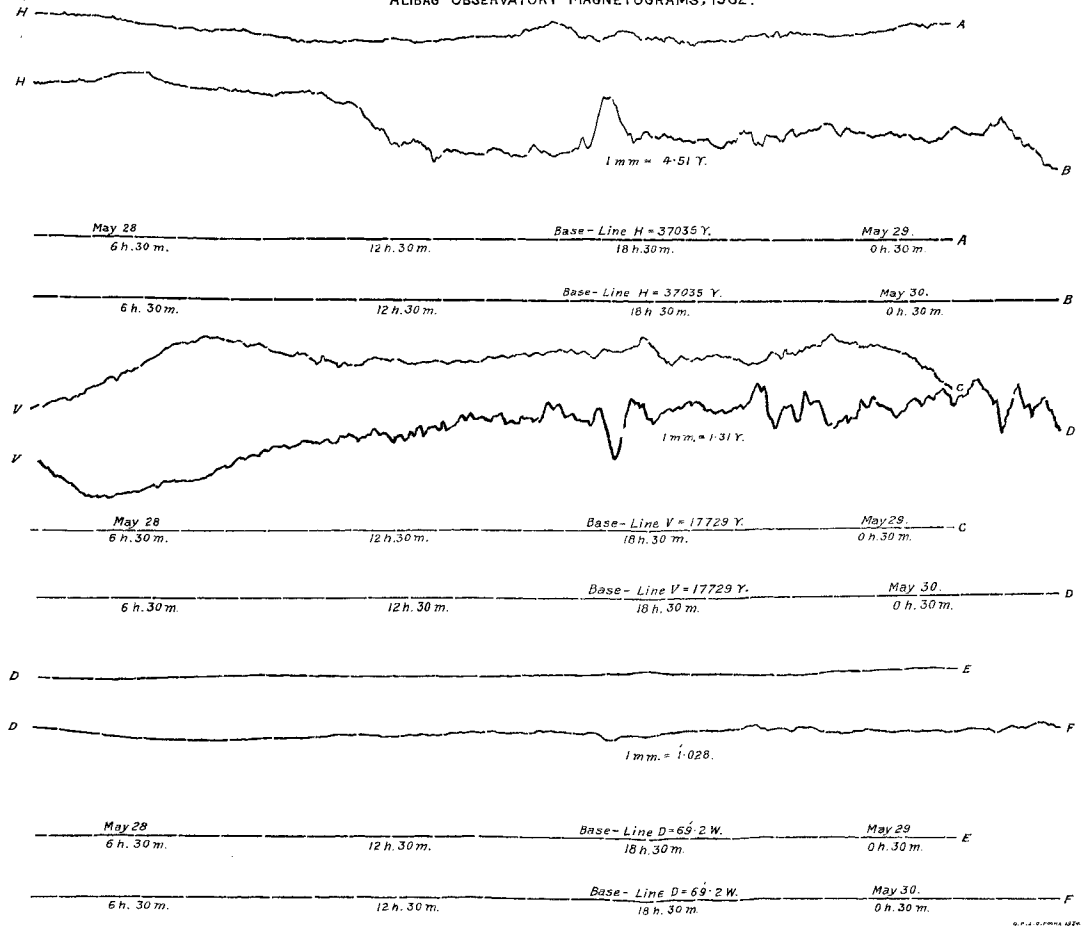


C.P. L.U. POONA, 1934.

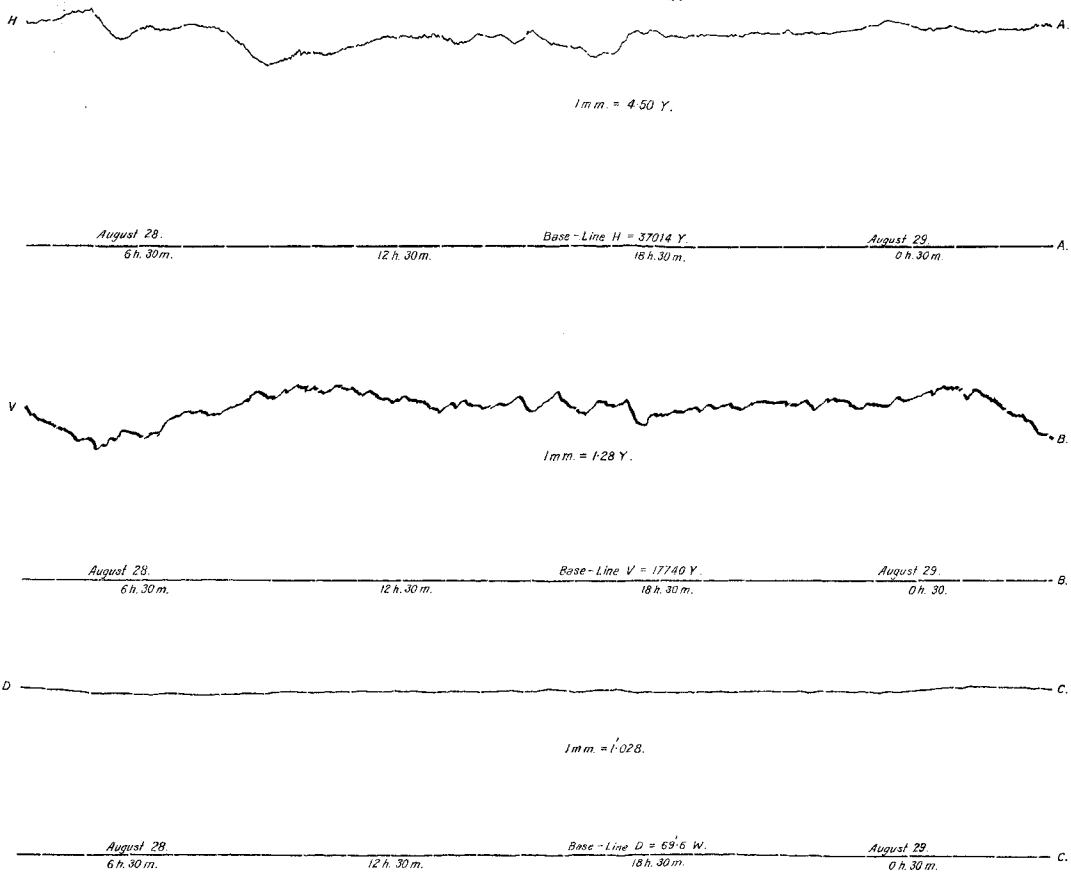
Alibag Observatory Magnetograms, 1932.



Alibag Observatory Magnetograms, 1932.



Alibag Observatory Magnetograms, 1932.



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